



PHASE II ENVIRONMENTAL SITE ASSESSMENT

224-310 Piquette Avenue, Detroit, Michigan

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

224-310 Piquette Avenue, Detroit, Michigan

AKT Peerless Project No. 10279F-2-20

1.0 Introduction

Jacobstreet LLC, through the Detroit-Wayne County Brownfields Coalition (DWCBC), retained AKT Peerless Environmental to conduct a Phase II Environmental Site Assessment (Phase II ESA) of a property located at 224-310 Piquette Avenue in Detroit, Michigan (subject property). This Phase II ESA was conducted in accordance with AKT Peerless' Proposal for a Phase II ESA (Proposal Number PF-17695), dated July 9 2015, Phase II Sampling and Analysis Plan (SAP), dated August 13, 2015, and is based on American Society for Testing and Materials (ASTM) Designation E 1903-11 "Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

This Phase II ESA was completed under the 2013 United States Environmental Protection Agency (USEPA) Brownfield Assessment Grant Cooperative Agreement No.: BF-00E01241 awarded to the DWCBC. A request for a Hazardous Substances Eligibility Determination was submitted to the USEPA. The USEPA confirmed the subject property's eligibility on April 27, 2015.

This Phase II ESA scope of work is intended to evaluate the recognized environmental conditions (RECs) presented in Section 2.4.

AKT Peerless' Phase II ESA report documents the field activities, sampling protocols, and laboratory results conducted as part of this assessment. AKT Peerless' Phase II ESA was performed for the benefit of the DWCBC and Jacobstreet LLC, who may rely on the contents and conclusions of this report.

2.0 Background

2.1 Site Description and Physical Setting

The subject property is located in the northeast ¼ of Section 31 in Detroit (Township 1 South/Range 12 East), Wayne County, Michigan. The subject property is located on the south side of Piquette Avenue between Brush and John R. Streets. The City of Detroit Recreational Department is listed as the current owner of the subject property. See the following table for additional subject property details. For ease of reference in this report, AKT Peerless has designated each of the subject property parcels with a letter. These designations have no relevance to legally recorded data about the subject property.

Subject Property Identifiers

| Parcel | Address | Tax Identification Number | Owner of Record | Approximate Acreage |
|--------|---------------------|---------------------------|-------------------|---------------------|
| A | 234 Piquette Avenue | 01001762-72 | City of Detroit – | 2.15 |

| Parcel | Address | Tax Identification Number | Owner of Record | Approximate Acreage |
|--------|---------------------|---------------------------|-----------------------|---------------------|
| B | 224 Piquette Avenue | 01001773 | Recreation Department | 0.13 |
| C | 222 Piquette Avenue | 01001774 | | 0.31 |

The subject property is currently zoned Restricted Industrial District (M2) and is located in an area of Detroit that is characterized by vacant land, commercial and residential properties, surface roadways, municipal sanitary sewer and water, and electrical and natural gas utilities.

Refer to Figure 1 for a topographic site location map. See Figure 2 for a site map.

2.2 Subject Property History and Land Use

The following table summarizes the historical uses of the subject property as identified by AKT Peerless during the June 15, 2015 Phase I ESA:

Subject Property Historical Use Summary

| Time Period | Improvements | Use | Owner / Occupant | Data Source(s) |
|--------------------|--|---|------------------|--|
| 1897 to 1909 | Residence (Parcels A, B, and C) | Residential | Unknown | Sanborn maps |
| 1909 to 1915 | Residence (Parcels A,B, and C) and factory (central portion of Building 1, Parcel A) | Residential and industrial | Unknown | Sanborn maps Municipal records |
| 1915 to late-1930s | Residences (Parcels A and C, residential flat (Parcel B), retail store, and central portion of Building 1 (Parcel A) | Residential, commercial, and industrial | Unknown | Sanborn maps Municipal records |
| 1939-late-1940s | Residences (Parcels A and C), residential flat (Parcel B), western and central portions of Building 1 and western portion of Building 2 (Parcel A) | Residential, commercial, and industrial | Unknown | Aerial photograph Municipal records |

| Time Period | Improvements | Use | Owner / Occupant | Data Source(s) |
|---------------------|--|--|--|--|
| Late-1940s to 1950s | Residences (Parcels A and C), residential flat (Parcel B), western and central portions of Building 1 and western and central portion of Building 2 (Parcel A) | Residential and industrial | Unknown and Frost Jack, elec. Contr. | Aerial photographs City directories Municipal records Sanborn maps |
| 1950s to 1960s | Automotive repair building (Parcel C), restaurant, residences (Parcel A), residential flat (Parcel B), western and central portions of Building 1 and western and central portion of Building 2 (Parcel A) | Residential, restaurant, automotive repair, and industrial | Common wealth services, Rice's bar and restaurant | Aerial photographs City directories Municipal records Sanborn maps |
| Late-1960s to 1980s | Automotive repair building (Parcel C), residential flat (Parcel B), Building 1 and Building 2 (Parcel A) | Residential, automotive repair, and industrial | Common wealth services, Rice's bar and restaurant, White Tower restaurant, Hills Garage Auto Repair, Midwest Typing, and Stainless Steel | Aerial photographs City directories Municipal records Sanborn maps |
| 1980s to 1990s | Residential flat, Building 1, and Building 2 | Residential and industrial | Stainless Steel | Aerial photographs Municipal records, Sanborn maps |
| 1990s to present | Building 1 and Building 2 | Industrial | Stainless Steel and Detroit L & Scrp. Div (1990s to 2005), City of Detroit Recreational Department (current owner) | Aerial photographs Municipal records, Sanborn maps Interviews Site reconnaissance |

2.3 Adjacent Property Land Use

The following table describes the current uses and/or occupants of the adjoining properties:

Adjoining Property Data

| Direction | Address | Current Use / Occupant |
|-----------|--------------------------|---|
| North | 6221 Brush Street | Multi-family residential apartment / Piquette Square |
| | 6230 John R. Street | Construction equipment storage for M-1 Rail/ None (vacant paved land) |
| Northeast | 411 Piquette Avenue | Commercial / Henry Ford Record Center and General Linen and Uniform Service |
| East | None | Vacant grass lot |
| Southeast | 6000 Brush Street | Multi-family residential apartments |
| South | 309 Harper Avenue | Church / Oakland Avenue Missionary Baptist Church |
| | 217-225 Harper Avenue | Single family residential homes |
| Southwest | 6000-6028 John R. Street | Multi-family residential apartment building |
| West | None | Vacant grass land |

2.4 Previous Environmental Investigations

On June 15, 2015, AKT Peerless prepared a Phase I ESA of the subject property. The Phase I ESA was conducted in accordance with: (1) the USEPA Standards and Practices for All Appropriate Inquiries [(AAI), 40 CFR Part 312] and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process / Designation E 1527-13* (ASTM Standard Practice E 1527-13). The following RECs were identified in the Phase I ESA:

REC 1- Parcel A of the subject property operated for industrial purposes from at least 1909 until the 1990s. During this time the subject property utilized and stored petroleum products and chemicals. During the site reconnaissance, AKT Peerless observed several containers of chemicals and stained areas within Buildings 1 and 2. Some of these stained areas were observed near floor drains within Building 1. In addition, AKT Peerless observed what appeared to be former machine pits with staining nearby in Building 1. Further, AKT Peerless observed exterior staining on Parcel A. In AKT Peerless' opinion, the historical use of the subject property for industrial purposes represents a REC. In addition, AKT Peerless recommends properly characterizing and disposing of any chemical/petroleum products still left on site.

REC 2- The western portion of the subject property (Parcel C) operated as an automotive repair facility from at least the 1937 until the 1980s. Environmental concerns typically associated with an automobile repair shop include: (1) historical automobile repair activities, (2) potential for the historical use of in-ground hoists, (3) the potential utilization or generation of non-deminimus quantities of oils, antifreeze, and/or hazardous chemicals in connection with automobile repair activities, (4) the potential for floor drains, and (5) the potential historical use of an oil water

separator. In AKT Peerless' opinion, the historical use of Parcel C for automotive repair purposes represents a REC.

REC 3- Historical oil and gas records indicated that the subject property historically utilized heating oil as a heating source. The heating oil was stored in both aboveground storage tanks (AST) and underground storage tanks (UST). According to these records a 4,000-gallon heating oil UST and a 2,000-gallon heating oil UST were installed at Building 1 in 1944. The location and status of these USTs were not provided. In AKT Peerless' opinion the historical use of heating oil at the subject property represents an REC. In addition, the potential exists for abandoned USTs to be present on the subject property; this investigation should include a geophysical survey of the subject property.

REC 4- Historical fire department records indicated that at least 10 USTs were formerly removed from Parcel A of the subject property. Removal records, contents, and locations of these USTs were not provided for nine of the USTs. These USTs ranged in size from 550-gallons to 10,000-gallons. One of these USTs, a 6,000-gallon gasoline UST was removed from the site in 1990 and a release of gasoline was reported to the MDEQ. The investigation associated with this release remains "open" due to the presence of residual lead contamination. In AKT Peerless' opinion, the former USTs and the open release at the subject property represents a REC.

REC 5- According to historical records, the northern adjoining property (6230 John R. Street) consisted of an industrial property from at least 1921 until the 1990s and a dry cleaners in 1940. The site is identified as a State Hazardous Waste Site. In AKT Peerless' opinion, the historical use of this adjoining property represents and REC.

REC 6- According to historical records a gasoline filling station was located on the western adjoining property from at least 1937 until the 1980s. Records indicated that at least two gasoline USTs were located on the property during that time. No information regarding the removal of these USTs was found during the Phase I ESA. In AKT Peerless' opinion, the historical use of the adjoining property as a gasoline filling station represents an REC.

3.0 Phase II Environmental Site Assessment Activities

The following sections summarize the site assessment activities conducted by AKT Peerless.

3.1 Scope of Assessment

To further evaluate the RECs, AKT Peerless conducted a subsurface investigation of the subject property that included: (1) conducting a targeted geophysical survey, (2) the advancement of 13 soil borings, (3) the installation of one temporary groundwater monitoring well, and (4) the collection of 13 soil samples and one groundwater sample. The following samples were submitted for laboratory analyses:

- 13 soil samples for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), polychlorinated biphenyls (PCBs), Michigan 10 Metals¹, cadmium, chromium, and/or lead.
- One groundwater sample for VOCs and PNAs.

¹ Michigan 10 Metals includes arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver, and zinc.

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

Summary of Investigation Activity

| REC # | Environmental Concern | Investigation Activity | Analytical Parameters |
|-------|---|--|---|
| 1 | Historical use of Parcel A | AKT-1 through AKT-5 | VOCs, PNAs, MI 10 Metals, and/or PCBs |
| 2 | Historical use of Parcel C | AKT-7 and AKT-8 | VOCs, PNAs, PCBs, lead, cadmium, chromium |
| 3 | Historical heating oil USTs | AKT-11 through AKT-13 and Geophysical Survey | VOCs, PNAs, lead, cadmium, chromium |
| 4 | Historical USTs and residual lead contamination | AKT-10 through AKT-13 and Geophysical Survey | VOCs, PNAs, lead, cadmium, chromium |
| 5 | Historical use of northern adjoining property | AKT-6, AKT-12 | VOCs, PNAs, lead, cadmium, chromium |
| 6 | Historical use of western adjoining property | AKT-9 | VOCs, PNAs, lead, cadmium, chromium |

3.1.1 Geophysical Survey

On September 14, 2015, AKT Peerless conducted completed a combined Electromagnetic Induction (EMI) and Ground Penetrating Radar (GPR) survey of targeted portions of the subject property to identify any former UST cavities and potential abandoned USTs, if any. The survey included all accessible exterior portions of the subject property and targeted locations where historical information suggested that UST(s) might have been present. The EMI and GPR survey was performed using a GSSI EMP-400 multi frequency EMI profiler with integrated GPS and a GSSI SIR-3000 GPR system with a 400- MHz dipole antenna. The instruments were calibrated prior to use to reflect site-specific conditions.

The geophysical survey conducted at the subject property did not identify anomalous features consistent with large metallic objects or unexplainable subsurface anomalies in the areas of investigation. The EMI survey did detect abnormally high inphase measurements on portions of the property that were interpreted as being consistent with cultural interference. Although not interpreted as buried metal, AKT Peerless advanced soil borings AKT-11, AKT-12, and AKT-13 in these areas. Subject to the limitations associated with the survey equipment at the subject property, no anomalies consistent with USTs were found in the survey area.

Refer to Appendix A for a copy of the geophysical survey report by AKT Peerless.

3.1.2 Soil Evaluation

On September 16, 2015, AKT Peerless advanced 13 soil borings at the subject property. AKT Peerless used hydraulic drive/direct-push (Geoprobe®) and hand-auger sampling techniques and followed the guidance outlined in ASTM publication E1903-11 "Standard Practice of Environmental Site Assessments:

Phase II Environmental Site Assessment Process.” AKT Peerless collected continuous soil samples from the soil borings in four-foot and/or six-inch intervals to the maximum depth explored of 18 feet below ground surface (bgs). AKT Peerless personnel inspected, field-screened, and logged the samples collected at each soil boring location. Refer to Figure 2 for a site map with soil boring locations. Boring logs are provided in Appendix B.

3.1.3 Groundwater Evaluation

AKT Peerless encountered groundwater in three of the soil borings advanced at the subject property (AKT-1, AKT-4, and AKT-13); however, an insufficient quantity of groundwater was encountered at the AKT-1 and AKT-4 soil boring locations to collect samples. AKT Peerless installed a temporary groundwater monitor well at the AKT-13 boring location. A one-inch PVC riser with a five-foot screen was utilized for the temporary groundwater monitor well. Groundwater sampling was conducted using low-flow sampling methodologies described in the April 1996 USEPA document Groundwater Issue titled “Low-Flow (Minimal Drawdown) Groundwater Sampling Procedures”. Stabilization data recorded for the well was documented in Low-Flow Sampling Logs included in Appendix C. Refer to Figure 2 for a site map with the temporary monitor well location.

3.1.4 Deviations from the Sampling and Analysis Plan

This Phase II ESA was conducted under a USEPA Brownfield Assessment Grant awarded to DWCPA. On August 13, 2015, AKT Peerless prepared a Phase II SAP on behalf of the DWCPA and Jacobstreet LLC. On August 17, 2015 the SAP was approved by the EPA Region 5 Project Manager. In completing field activities, the following deviations from the approved SAP were made:

- Groundwater was not encountered in borings AKT-1, AKT-6, AKT-8, or AKT-9. Wet soils were encountered in the AKT-1 boring location, but water production was insufficient to allow sampling;
- Groundwater was encountered in the AKT-4 soil boring location, but was not sampled because (1) groundwater was not proposed for this boring location and (2) there was an insufficient quantity of groundwater to collect a sample;
- Groundwater was encountered in the AKT-13 soil boring (a proposed floater boring based on Geophysical Survey results). A groundwater sample was collected for laboratory analysis; and
- Matrix Spike and Matrix Spike Duplicate samples were not submitted for laboratory analysis for groundwater due to insufficient groundwater encountered at the AKT-13 soil boring location. A groundwater duplicate, field bottle blank, and equipment blank were all submitted from the AKT-13 soil boring location.

3.2 Quality Assurance/Quality Control

To ensure the accuracy of data collected during on site activities, AKT Peerless implemented proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to, (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, (4) sample preservation techniques, and (5) QA/QC sample collection.

3.2.1 Decontamination of Equipment

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

3.2.2 Calibration of Field Equipment

All field instruments were calibrated prior to first use on-site to ensure accuracy. Field instruments utilized during investigation activities at this subject property were a photoionization detector (PID), a water quality indicator meter (the meter measures pH, temperature, dissolved oxygen, conductivity and oxidation reduction potential), and a turbidity meter.

During AKT Peerless' Phase II ESA, a PID was used to screen all soil samples. The PID was maintained in a calibrated condition using 100 ppm isobutylene span gas prior to subsurface investigations.

The water quality indicator meter was used to measure indicator parameters during low-flow sampling conducted at the subject property. The meter was calibrated using known standards and in accordance with manufacturer specifications prior to first use on the subject property. The meter was designed to measure pH, temperature, dissolved oxygen, conductivity and oxidation reduction potential.

The turbidity meter was used during low-flow sampling conducted at the subject property. The meter was calibrated using known standards and in accordance with manufacturer specifications prior to first use on the subject property.

3.2.3 Documentation of Activities

During AKT Peerless' Phase II ESA activities, subject property conditions (i.e., soil boring locations, weather conditions) were documented. AKT Peerless visually inspected the soil and groundwater samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture and water table depth, and (4) signs of possible contamination (i.e., stained or discolored soil, odors). Soil types were classified in accordance with ASTM publication D-2488 "Unified Soil Classification System." All soil and groundwater samples were delivered to Fibertec Environmental Services under chain-of-custody documentation. See Appendix B for AKT Peerless' soil boring logs. See Figure 2 for site map with soil boring and temporary monitoring well locations.

3.2.4 Sample Preservation Techniques

AKT Peerless collected soil samples according to USEPA Publication SW-846, "Test Methods for Evaluating Solid Waste." Soil and groundwater samples were collected in laboratory-supplied containers, stored on ice or at approximately 4 degrees Celsius, and submitted under chain-of-custody documentation.

Soil samples collected for volatile analyses were field preserved with methanol in accordance with USEPA Method 5035. Soil samples collected for PNAs, PCBs and metals analyses were stored in unpreserved, 8-ounce and/or 4-ounce wide-mouth jars.

Groundwater samples collected from the temporary well was collected with a peristaltic pump and dedicated tubing. Groundwater samples for VOCs analyses were collected with zero headspace into 40 milliliter (ml) glass vials and preserved with hydrochloric acid. Groundwater samples for metal analyses were collected into plastic bottles and preserved with nitric acid. Groundwater samples collected for analysis of PNAs were collected into 1-liter amber glass jars.

3.2.5 QA/QC Sample Collection

AKT Peerless collected QA/QC samples for soil and water matrices in general accordance with the QA/QC sample procedures outlined in the “Quality Assurance Project Plan (QAPP), Brownfield Assessment Program, Hazardous Substances and Petroleum Site Assessment Grant, Detroit Wayne County Brownfields Redevelopment Authority Coalition, Detroit, Michigan”, dated July 2014, revision 1. The following table describes the QA/QC samples collected for each matrix.

3.3 Laboratory Analysis and Methods

AKT Peerless submitted 13 soil samples and one groundwater sample for laboratory analyses. The following table summarizes the location, depth, matrix, and laboratory analysis for each sample.

Sample Collection Summary

| Sample Identification | Sample Matrix | Sample Interval (feet bgs) | Laboratory Analytical Parameters |
|-----------------------|---------------|----------------------------|---|
| AKT-1 | Soil | 1-3' | VOCs, PNAs, Michigan 10 Metals |
| AKT-2 | Soil | 1-3' | VOCs, PNAs, PCBs, Michigan 10 Metals |
| AKT-3 | Soil | 1-3' | VOCs, PNAs, PCBs, Michigan 10 Metals |
| AKT-4 | Soil | 1-3' | VOCs, PNAs, Michigan 10 Metals |
| AKT-5 | Soil | 0.5-1' | VOCs, PNAs, Michigan 10 Metals |
| AKT-6 | Soil | 2-4' | VOCs, PNAs |
| AKT-7 | Soil | 2-4' | VOCs, PNAs, PCBs, Cadmium, Chromium, Lead |
| AKT-8 | Soil | 0.5-2' | VOCs, PNAs, PCBs, Cadmium, Chromium, Lead |
| AKT-9 | Soil | 2-4' | VOCs, PNAs, Cadmium, Chromium, Lead |
| AKT-10 | Soil | 4-6' | VOCs, PNAs, Cadmium, Chromium, Lead |
| AKT-11 | Soil | 2-4' | VOCs, PNAs, Cadmium, Chromium, Lead |
| AKT-12 | Soil | 1-3' | VOCs, PNAs, Cadmium, Chromium, Lead |
| AKT-13 | Soil | 2-4' | VOCs, PNAs, Cadmium, Chromium, Lead |
| AKT-13 | Groundwater | 3-8' | VOCs, PNAs |

The laboratory analyzed the samples for: (1) VOCs in accordance with USEPA Method 5035A/8260B/5030B; (2) PNAs in accordance with USEPA Method 3546/8270C/3510C; (3) metals, except

mercury, in accordance with USEPA Method 0200.2-M/6020A; (4) mercury in accordance with USEPA Method 7471B; and (5) PCBs in accordance with USEPA Method 3546/8082A.

4.0 Evaluation and Presentation of Results

4.1 Subsurface Conditions

The following sections summarize the physical soil and groundwater conditions at the subject property.

4.1.1 Soil and Groundwater Conditions Based on Published Material

According to the United States Department of Agriculture, “*Soil Survey of Wayne County, Michigan*,” the soil in the area is classified as the Pewamo-Blount-Metamora association. This soil is described as “*nearly level to gently sloping, very poorly drained to somewhat poorly drained soil that has fine textured to moderately coarse textured subsoil.*”

According to the Michigan Geological Survey Division’s publication, “*Quaternary Geology of Southern Michigan*,” the soil in the area is lacustrine clay and silt. This soil is described as gray to dark reddish brown and it is varved in some localities. The soil chiefly underlies extensive, flat, low-lying areas formerly inundated by glacial Great Lakes. Soil thickness ranges from 10 to 30 feet. Typically, lacustrine clay and silt is associated with low hydraulic permeability and restricts the movement of groundwater.

Typically, the water table flows toward a major drainage feature or in the same direction as the drainage basin. AKT Peerless infers that groundwater in the vicinity of the subject property flows toward the south, with potential influence from the Detroit River and topographic contours.

4.1.2 Soil and Groundwater Conditions Based on Field Observations

During drilling activities, AKT Peerless encountered the following soil types:

- FILL from below the ground surface to depths ranging between two feet and 6.5 feet bgs. The fill consisted of medium grained sand, soft clay, trace gravel, and varying amounts of glass and masonry debris. This fill was black to dark brown, and brown mottled gray.
- CLAY from approximately two feet to 18 feet bgs, the maximum depth explored. This clay was medium stiff to stiff with trace sand and gravel, brown to brown mottled gray from approximately two feet to 16 feet bgs. In several borings, from approximately 13.5 feet to 18 feet bgs, this clay was stiff with trace sand and gravel, and gray.

AKT Peerless encountered groundwater in three soil borings (AKT-1, AKT-4, and AKT-13) at depths ranging between four feet and 5.5 feet bgs; however, was encountered at insufficient volumes at the AKT-1 and AKT-4 boring locations to collect samples for laboratory analysis. The groundwater appears to be perched in the fill material overlying the clay and is not utilized as a drinking water source.

In general, with the exception of fill material encountered throughout the subject property, the subsurface soil at the subject property is consistent with the typical soil as described in the “*Soil Survey of Wayne County, Michigan*” and “*Quaternary Geology of Southern Michigan*.” See Figure 23 for a site map with soil boring and temporary monitor well locations. See Appendix B for AKT Peerless’ soil boring logs.

4.2 Laboratory Analytical Results

AKT Peerless collected soil and groundwater samples for the purpose of determining if the subject property meets the definition of a *facility*, as defined in Part 201 of the NREPA, Michigan Public Act (PA) 451, 1994, as amended. Analytical results were compared with MDEQ Residential Cleanup Criteria (RCC) provided by the MDEQ Remediation and Redevelopment Division.

4.2.1 Soil Analytical Results

AKT Peerless submitted 13 soil samples for laboratory analysis of VOC, PNAs, PCBs, Michigan 10 Metals, and/or cadmium, chromium, and lead. The results of the laboratory analyses of the soil samples are summarized in the table below:

Summary of Soil Analytical Results

| Parameter | Chemical Abstract Service (CAS) Number | Sample Identification with Criteria Exceedance (depth) | MDEQ Residential Criteria Exceeded/Established Criteria (ug/kg) | Maximum Concentration (ug/kg)/Sample Location |
|-----------------|--|--|---|---|
| Arsenic | 7440-38-2 | AKT-1 (1-3') AKT-2 (1-3') AKT-3 (1-3') AKT-4 (1-3') AKT-5 (0.5-1') | DWP/ 4,600 GSIP/ 4,600 DC/ 7,600 | 15,000/ AKT-2 (1-3') |
| Chromium, total | 7440-47-3 | AKT-1 (1-3') AKT-2 (1-3') AKT-3 (1-3') AKT-4 (1-3') AKT-5 (0.5-1') AKT-7 (2-4') AKT-8 (0.5-2') AKT-9 (2-4') AKT-10 (4-6') AKT-11 (2-4') AKT-12 (1-3') AKT-13 (2-4') | DWP/ 30,000 GSIP/ 3,300 | 31,000/ AKT-5 (0.5-1') |
| Lead | 7439-92-1 | AKT-2 (1-3') AKT-7 (1-3') | DC/ 400,000 | 590,000/ AKT-2 (1-3') |
| Mercury | 7439-97-6 | AKT-1 (1-3') AKT-2 (1-3') AKT-4 (1-3') AKT-5 (0.5-1') | GSIP/ 50 | 320/ AKT-1 (0.5-1') |
| Selenium | 7782-49-2 | AKT-1 (1-3') AKT-2 (1-3') AKT-5 (0.5-1') | GSIP/ 400 | 1,900/ AKT-2 (1-3') |

Notes:

Sample identification: AKT-# indicates soil boring and (#-#) indicates sample depth in feet.

ug/kg – micrograms per kilogram

DWP – Drinking Water Protection Criteria

GSIP – Groundwater Surface Water Interface Protection Criteria

DC – Direct Contact Criteria

Based on a review of AKT Peerless' soil sampling laboratory analytical results, arsenic, chromium (total), lead, mercury, and selenium were detected in subsurface soil at concentrations exceeding the MDEQ Part 201 RCC for DWP, GSIP, and/or DC.

The metals barium, cadmium, copper, silver, and zinc were identified at concentrations that exceed laboratory analytical method detection limits but were below MDEQ RCC. Several PNAs, including anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, 2-methylnaphthalene, phenanthrene, and pyrene, were identified at concentrations that exceed laboratory analytical method detection limits but were below MDEQ RCC. The volatiles tetrachloroethylene, toluene, 1,2,4-trimethylbenzene, and xylenes were identified at concentrations that exceed laboratory method detection limits but were below MDEQ RCC. The remaining PNAs, volatiles, and PCBs were not detected above laboratory analytical method detection limits.

It should be noted that the volatiles tetrachloroethylene and xylenes were identified on Parcel A at concentrations that exceed the MDEQ's Draft Residential Vapor Intrusion Soil Screening Levels. However, these volatiles were not detected above the MDEQ's Draft Non-Residential Vapor Intrusion Screening Levels, which are applicable to the current and future use of the subject property.

Refer to Figure 3 for a site map with soil analytical results exceeding MDEQ criteria. Refer to Table 1 for a summary of soil analytical results. Refer to Appendix D for a complete analytical laboratory report.

4.2.2 Groundwater Analytical Results

AKT Peerless submitted one groundwater sample for laboratory analysis of VOCs and PNAs. Based on a review of AKT Peerless' groundwater sampling laboratory analytical results, VOCs and PNAs were not detected above laboratory analytical method detection limits.

Refer to Table 2 for a summary of groundwater analytical results. Refer to Appendix D for a complete analytical laboratory report.

4.2.3 Quality Assurance/Quality Control Analytical Results

Soil

AKT Peerless collected QA/QC soil samples in accordance with the QA/QC sample procedures outlined in the QAPP, dated July 2014, revision 1. The QA/QC soil samples met the hold times for each analytical group and were samples analyzed in accordance with the specified method. The QA/QC soil samples collected were reported to be within the expected control limits.

It should be noted that lead was detected at a slightly lower concentration from the soil duplicate sample as compared to the original sample. While the identified concentration of lead was still within the expected control limits, the concentration detected in the duplicate was below the MDEQ RCC for direct contact (original sample exceeded the MDEQ RCC for direct contact for lead).

Based on a review of the analytical results, AKT Peerless did not identify conditions that would indicate errors arising from field sampling activities or laboratory procedures.

Groundwater

AKT Peerless collected QA/QC groundwater samples in accordance with the QA/QC sample procedures outlined in the QAPP, dated July 2014, revision 1. The QA/QC groundwater samples met the hold times for each analytical group, were samples analyzed in accordance with the specified method, and were within QA/QC control limits.

5.0 Summary, Conclusions, and Recommendations

The following sections summarize the investigation conducted by AKT Peerless at the subject property.

5.1 Summary of Environmental Concerns

Based on AKT Peerless' June 15, 2015, Phase I ESA, the following RECs were identified:

- Historical industrial use/operations of Parcel A of the subject property;
- Historical use of Parcel C of the subject property as an automotive repair facility;
- Historical heating oil USTs;
- Historical USTs and residual lead contamination;
- Historical use of the northern adjoining property for industrial operations and a dry cleaner; and
- Historical use of the western adjoining property as a gasoline filling station.

5.2 Summary of Subsurface Investigation

On September 14 and 16, 2015, AKT Peerless conducted a subsurface investigation at the subject property to evaluate the RECs identified during its Phase I ESA, and to confirm the current subsurface conditions at the subject property. AKT Peerless (1) conducted a targeted geophysical survey, (2) advanced 13 soil borings, (3) installed one temporary groundwater monitoring well, and (4) collected 13 soil samples and one groundwater sample. AKT Peerless submitted soil and groundwater samples for laboratory analyses of select parameters, including VOCs, PNAs, PCBs, Michigan 10 Metals, and/or cadmium, chromium, and lead.

5.3 Conclusions

AKT Peerless conducted soil and groundwater sampling in areas most likely to be impacted by contaminants based on the past use of the subject property. The results of the investigation indicate the following:

- The geophysical survey conducted at the subject property did not identify anomalous features consistent with large metallic objects or unexplainable subsurface anomalies in the areas of investigation. The EMI survey did detect abnormally high inphase measurements on portions of the property that were interpreted as being consistent with cultural interference. Although not interpreted as buried metal, AKT Peerless advanced soil borings AKT-11, AKT-12, and AKT-13 in these areas. Subject to the limitations associated with the survey equipment at the subject property, no anomalies consistent with USTs were found in the survey area.

- During AKT Peerless' subsurface investigation, arsenic, chromium (total), lead, mercury, and selenium were detected in subsurface soil at concentrations exceeding the MDEQ Part 201 RCC for DWP, GSIP, and/or DC.

Based on laboratory analytical results, the subject property meets the definition of a *facility*, as defined in Part 201 of the NREPA, Michigan PA 451, 1994, as amended.

5.4 Recommendations

Because the subject property meets the definition of a *facility*, AKT Peerless recommends any future owner(s)/operator(s) prepare a Baseline Environmental Assessment (BEA) report. Section 26(1)(c) of Part 201 provides certain liability protections to a person who becomes an owner or operator of a *facility* on, or after June 5, 1995 if they comply with both of the following, or unless other defenses apply: a BEA is conducted prior to or within 45 days after the earlier of the date of purchase, occupancy, or foreclosure, and the owner or operator discloses the results of the BEA to the MDEQ and subsequent purchaser or transferee.

In addition, because the subject property meets the definition of a facility, AKT Peerless recommends conducting a Section 20107(a) Compliance Analysis to assure compliance with Due Care obligations. Due Care obligations include:

- Undertaking measures to prevent exacerbation of existing contamination.
- Exercising due care by undertaking response activities to mitigate unacceptable exposure to hazardous substances, mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the subject property in a manner that protects health and safety.
- Taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions.
- Provide notifications to the MDEQ and others in regard to mitigating fire and explosions hazards, discarded or abandoned containers, contamination migrating beyond property boundaries, as applicable.
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility.
- Not impede the effectiveness or integrity of any land use or resource restriction employed at the facility in connection with response activities.

6.0 Limitations

The information and opinions obtained in this report are for the exclusive use of DWCBC and Jacobstreet LLC. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without your written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties who have been extended the right to rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and DWCBC.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by DWCBC or third parties is complete or accurate.

7.0 Signatures of Environmental Professionals

The following individuals contributed to the completion of this report.



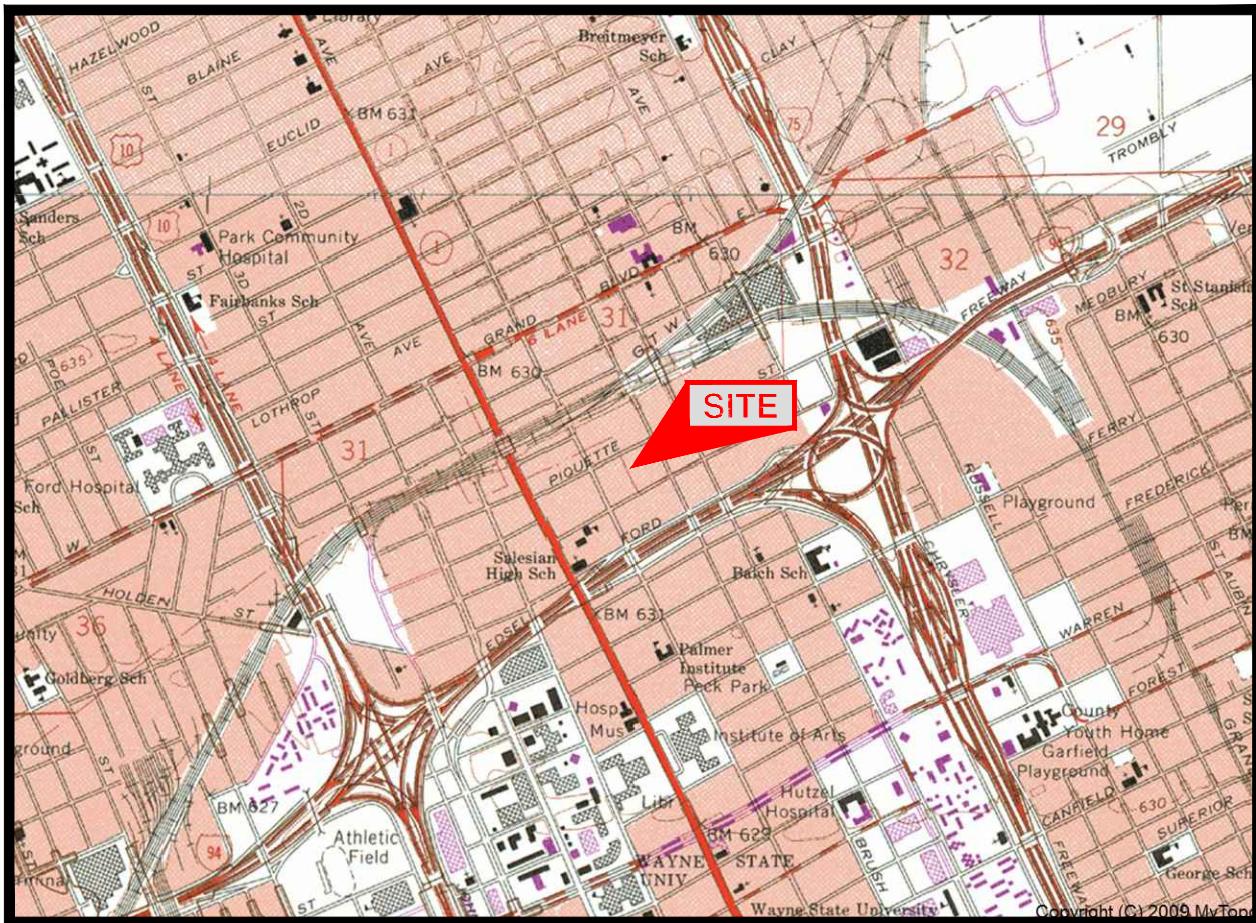
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FIGURES

DETROIT QUADRANGLE
MICHIGAN - WAYNE COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)



T.1 S.-R.12 E.



MICHIGAN
QUADRANGLE LOCATION



IMAGE TAKEN FROM 1968 U.S.G.S. TOPOGRAPHIC MAP
PHOTOREVISED 1980

AKT PEERLESS

ILLINOIS

MICHIGAN

OHIO

GEORGIA

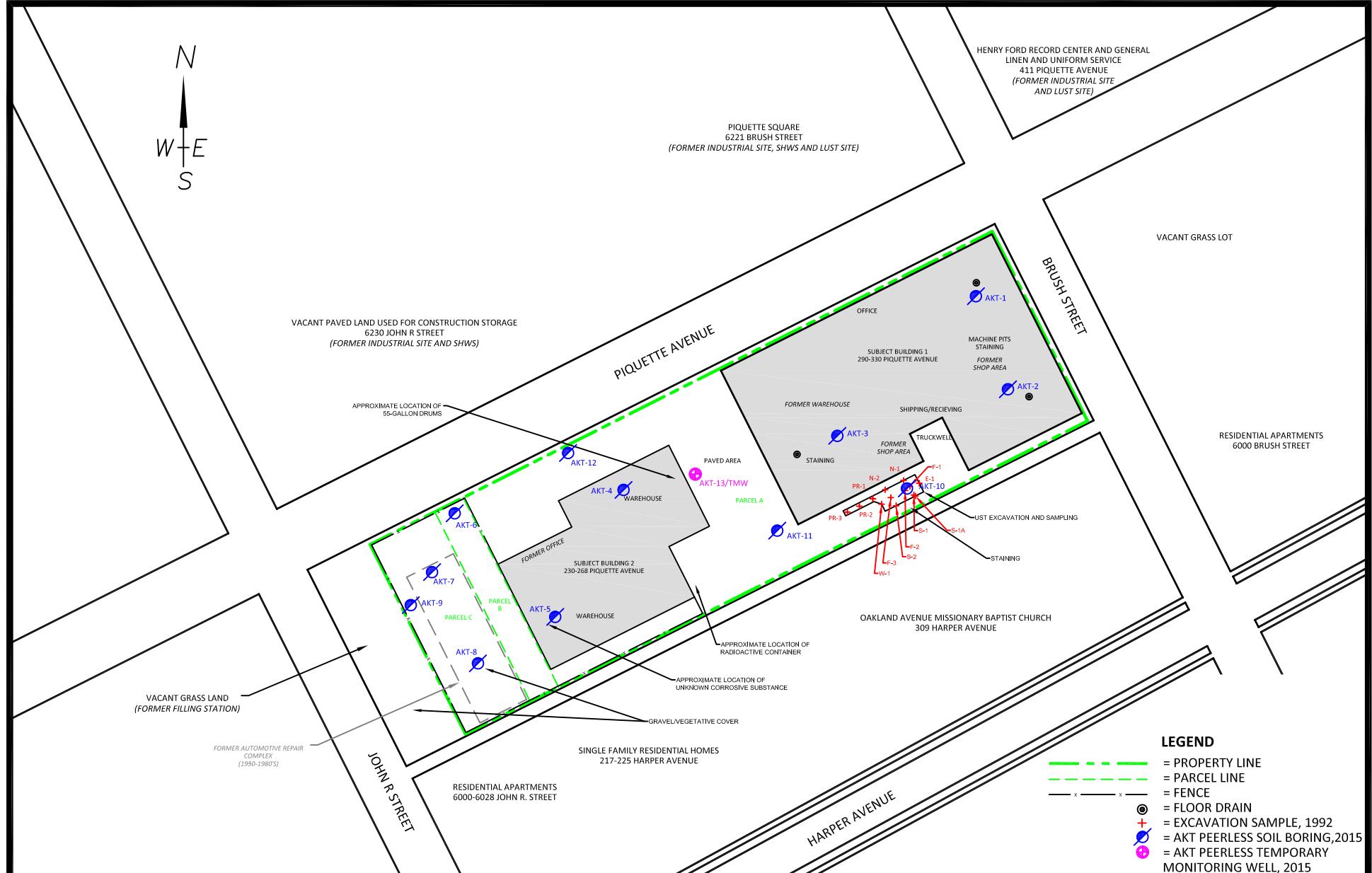
www.aktpeerless.com

TOPOGRAPHIC LOCATION MAP

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN
PROJECT NUMBER : 10279F-2-20

DRAWN BY: DDB
DATE: 09/29/2015

FIGURE 1



LEGEND

- = PROPERTY LINE
- = PARCEL LINE
- = FENCE
- ◎ = FLOOR DRAIN
- + = EXCAVATION SAMPLE, 1992
- = AKT PEERLESS SOIL BORING, 2015
- = AKT PEERLESS TEMPORARY MONITORING WELL, 2015

SITE MAP WITH SOIL BORING AND TEMPORARY MONITORING WELL LOCATIONS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN
PROJECT NUMBER : 10279F-2-20

DRAWN BY: DDB/OGO

DATE: 09/29/2015

0 60 120

SCALE: 1" = 120'

FIGURE 2

AKTPEERLESS

ILLINOIS

MICHIGAN

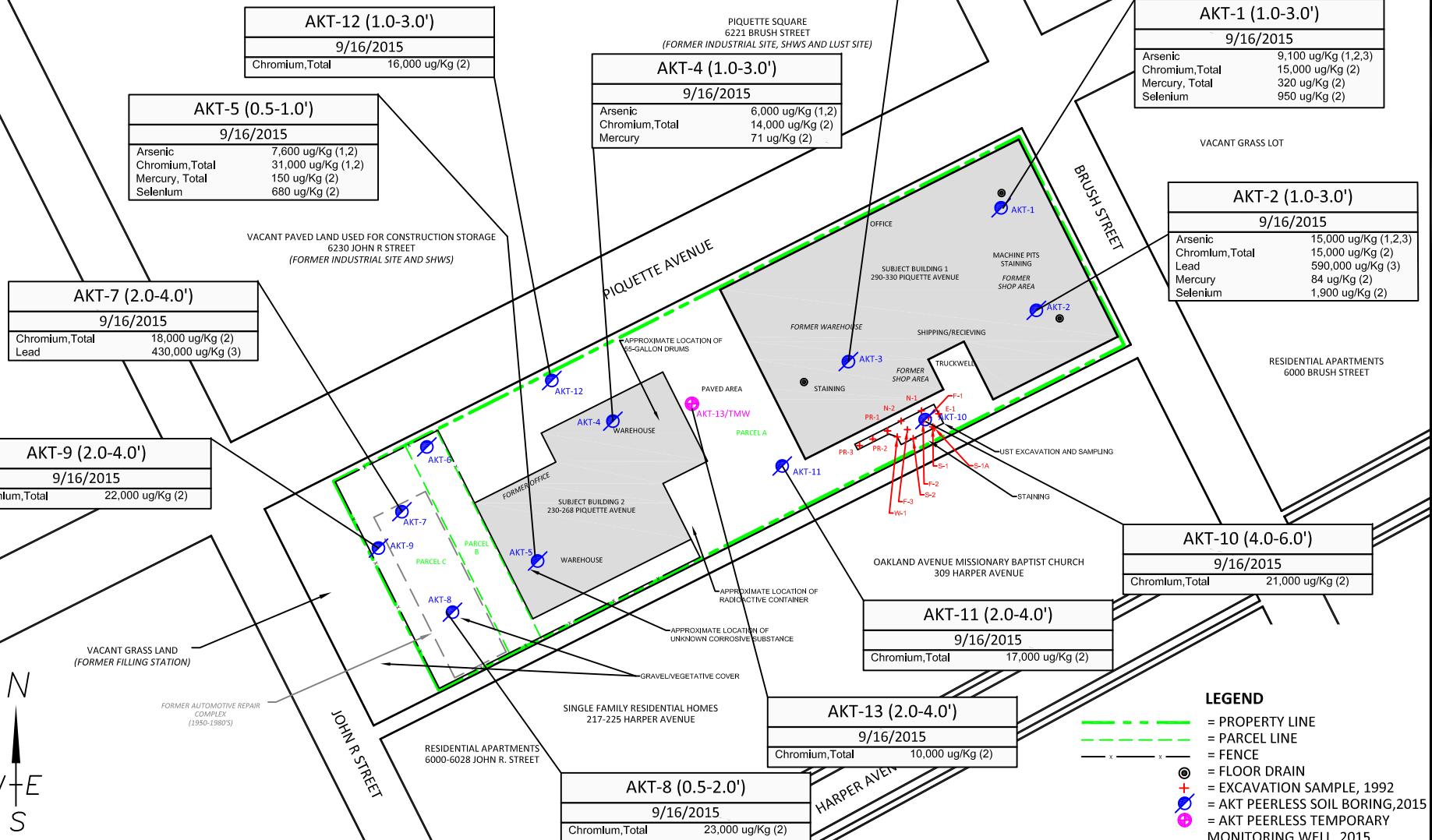
OHIO

GEORGIA

www.aktpeerless.com

CRITERIA NOTE

- (1) - Exceeds Residential Drinking Water Protection Criteria
 - (2) - Exceeds Groundwater Surface Water Interface Protection Criteria
 - (3) - Exceeds Residential Direct Contact Criteria



SITE MAP WITH SOIL RESULTS EXCEEDING MDEQ RCC

224-310 PIQUETTE AVENUE

DETROIT, MICHIGAN

PROJECT NUMBER : 10279F-2-20

DRAWN BY: DDB/OGO

DATE: 09/29/2015

0 60 120

SCALE: 1" = 120'

FIGURE 3

AKT PEERLESS

ILLINOIS

MICHIGAN OHIO

GEORGIA

TABLES

Table 1: Summary of Soil Analytical Results
224-310 Piquette Avenue
Detroit, Michigan
AKT Peerless Project No. 10279F-2-20

| Parameters* | Chemical Abstract Service Number | Statewide Default Background Levels | Residential Drinking Water Protection Criteria | Groundwater Surface Water Interface Protection Criteria | Residential Soil Volatilization to Indoor Air Inhalation Criteria | Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) | Residential Particulate Soil Inhalation Criteria | Residential Direct Contact Criteria | Residential Soil Saturation Concentration Screening Levels | Maximum Concentration Detected | Sample Location | AKT-1 | AKT-2 | AKT-3 | AKT-4 | AKT-5 | AKT-6 | AKT-7 | AKT-8 | AKT-9 | AKT-10 |
|---|----------------------------------|-------------------------------------|--|---|---|--|--|-------------------------------------|--|--------------------------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| | | | | | | | | | | | Collection Date | 9/16/2015 | 9/16/2015 | 9/16/2015 | 9/16/2015 | 9/16/2015 | 9/16/2015 | 9/16/2015 | 9/16/2015 | 9/16/2015 | |
| | | | | | | | | | | | Depth | (1-3') | (1-3') | (1-3') | (1-3') | (0.5-1') | (2-4') | (2-4') | (0.5-2') | (2-4') | (4-6') |
| <i>*(Refer to detailed laboratory report for method reference data)</i> | | | | | | | | | | | | | | | | | | | | | |
| Metals | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | 5,800 | 4,600 | 4,600 | NLV | NLV | 7.2E+5 | 7,600 | NA | 15,000 | | 9,100 | 15,000 | 5,500 | 6,000 | 7,600 | NS | NS | NS | NS | NS |
| Barium (B) | 7440-39-3 | 75,000 | 1.3E+6 | (G) | NLV | NLV | 3.3E+8 | 3.7E+7 | NA | 190,000 | | 78,000 | 190,000 | 22,000 | 59,000 | 130,000 | NS | NS | NS | NS | NS |
| Cadmium (B) | 7440-43-9 | 1,200 | 6,000 | (G,X) | NLV | NLV | 1.7E+6 | 5.5E+5 | NA | 1,200 | | 360 | 990 | 100 | 310 | 700 | NS | 1,200 | <50 | 170 | 110 |
| Chromium, Total | 7440-47-3 | 18,000 (total) | 30,000 | 3,300 | NLV | NLV | 2.6E+5 | 2.5E+6 | NA | 31,000 | | 15,000 | 15,000 | 21,000 | 14,000 | 31,000 | NS | 18,000 | 23,000 | 22,000 | 21,000 |
| Copper (B) | 7440-50-8 | 32,000 | 5.8E+6 | (G) | NLV | NLV | 1.3E+8 | 2.0E+7 | NA | 220,000 | | 67,000 | 220,000 | 14,000 | 20,000 | 39,000 | NS | NS | NS | NS | NS |
| Lead (B) | 7439-92-1 | 21,000 | 7.0E+5 | (G,X) | NLV | NLV | 1.0E+8 | 4.0E+5 | NA | 590,000 | | 150,000 | 590,000 | 24,000 | 160,000 | 220,000 | NS | 430,000 | 22,000 | 13,000 | 200,000 |
| Mercury, Total | 7439-97-6 | 130 | 1,700 | 50 (M); 1.2 | 48,000 | 52,000 | 2.0E+7 | 1.6E+5 | NA | 320 | | 320 | 84 | <50 | 71 | 150 | NS | NS | NS | NS | NS |
| Selenium (B) | 7782-49-2 | 410 | 4,000 | 400 | NLV | NLV | 1.3E+8 | 2.6E+6 | NA | 1,900 | | 950 | 1,900 | 250 | 390 | 680 | NS | NS | NS | NS | NS |
| Silver (B) | 7440-22-4 | 1,000 | 4,500 | 100 (M); 27 | NLV | NLV | 6.7E+6 | 2.5E+6 | NA | 690 | | <100 | 690 | <100 | 370 | 380 | NS | NS | NS | NS | NS |
| Zinc (B) | 7440-66-6 | 47,000 | 2.4E+6 | (G) | NLV | NLV | ID | 1.7E+8 | NA | 390,000 | | 72,000 | 390,000 | 31,000 | 86,000 | 150,000 | NS | NS | NS | NS | NS |
| PCBs | | | | | | | | | | | | | | | | | | | | | |
| Polychlorinated biphenyls (PCBs) (J,T) | 1336-36-3 | NA | NLL | NLL | 3.0E+6 | 2.4E+5 | 5.2E+6 | (T) | NA | <100 | | NS | <100 | <100 | NS | NS | NS | <100 | <100 | NS | NS |
| Semivolatiles, PNAs | | | | | | | | | | | | | | | | | | | | | |
| Anthracene | 120-12-7 | NA | 41,000 | ID | 1.0E+9 (D) | 1.4E+9 | 6.7E+10 | 2.3E+8 | NA | 500 | | <330 | <330 | <330 | <330 | <330 | 500 | <330 | <330 | <330 | |
| Benzo(a)anthracene (Q) | 56-55-3 | NA | NLL | NLV | NLV | ID | 20,000 | NA | 1,300 | | 890 | 340 | 1,300 | <330 | <330 | <330 | 1,000 | <330 | <330 | <330 | |
| Benzo(a)pyrene (Q) | 50-32-8 | NA | NLL | NLL | NLV | NLV | 1.5E+6 | 2,000 | NA | 1,300 | | 880 | <330 | 1,300 | <330 | <330 | 960 | <330 | <330 | <330 | |
| Benzo(b)fluoranthene (Q) | 205-99-2 | NA | NLL | NLL | ID | ID | 20,000 | NA | 1,900 | | 1,300 | 410 | 1,900 | <330 | <330 | <330 | 1,600 | <330 | <330 | <330 | |
| Benzo(k)fluoranthene (Q) | 207-08-9 | NA | NLL | NLL | NLV | NLV | ID | 2.0E+5 | NA | 650 | | 390 | <330 | 650 | <330 | <330 | 550 | <330 | <330 | <330 | |
| Chrysene (Q) | 218-01-9 | NA | NLL | NLL | ID | ID | 2.0E+6 | NA | 1,300 | | 970 | 420 | 1,300 | <330 | <330 | <330 | 1,000 | <330 | <330 | <330 | |
| Fluoranthene | 206-44-0 | NA | 7.3E+5 | 5,500 | 1.0E+9 (D) | 7.4E+8 | 9.3E+9 | 4.6E+7 | NA | 2,900 | | 1,800 | 570 | 2,600 | <330 | <330 | <330 | 2,900 | <330 | <330 | |
| Indeno(1,2,3-cd)pyrene (Q) | 193-39-5 | NA | NLL | NLL | NLV | NLV | ID | 20,000 | NA | 440 | | <330 | <330 | 440 | <330 | <330 | <330 | <330 | <330 | <330 | |
| 2-Methylnaphthalene | 91-57-6 | NA | 57,000 | 4,200 | 2.7E+6 | 1.5E+6 | 6.7E+8 | 8.1E+6 | NA | 880 | | <330 | <330 | <330 | <330 | 880 | <330 | <330 | <330 | <330 | |
| Phenanthrene | 85-01-8 | NA | 56,000 | 2,100 | 2.8E+6 | 1.6E+5 | 6.7E+6 | 1.6E+6 | NA | 2,100 | | 960 | 550 | 990 | <330 | 600 | <330 | 2,100 | <330 | <330 | |
| Pyrene | 129-00-0 | NA | 4.8E+5 | ID | 1.0E+9 (D) | 6.5E+8 | 6.7E+9 | 2.9E+7 | NA | 2,100 | | 1,500 | 490 | 2,100 | <330 | <330 | <330 | 1,900 | <330 | <330 | |
| Remaining PNAs | Varies | - | - | - | - | - | - | - | - | - | | BDL | |
| Volatiles | | | | | | | | | | | | | | | | | | | | | |
| Tetrachloroethylene | 127-18-4 | NA | 100 | 1,200 (X) | 11,000 | 1.7E+5 | 2.7E+9 | 2.0E+5 (C) | 88,000 | 85 | | <50 | 85 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | |
| Toluene (l) | 108-88-3 | NA | 16,000 | 5,400 | 3.3E+5 (C) | 2.8E+6 | 2.7E+10 | 5.0E+7 (C) | 2.5E+5 | 220 | | <50 | 86 | <50 | <50 | 220 | <50 | <50 | <50 | <50 | |
| 1,2,4-Trimethylbenzene (l) | 95-63-6 | NA | 2,100 | 570 | 4.3E+6 (C) | 2.1E+7 | 8.2E+10 | 3.2E+7 (C) | 1.1E+5 | 120 | | <100 | <100 | <100 | <100 | 120 | <100 | <100 | <100 | <100 | |
| Xylenes (l) | 1330-20-7 | NA | 5,600 | 820 | 6.3E+6 (C) | 4.6E+7 | 2.9E+11 | 4.1E+8 (C) | 1.5E+5 | 450 | | <150 | 190 | <150 | <150 | 450 | <150 | & | | | |

Table 1: Summary of Soil Analytical Results
224-310 Piquette Avenue
Detroit, Michigan
AKT Peerless Project No. 10279F-2-20

| Parameters* | Chemical Abstract Service Number | Statewide Default Background Levels | Residential Drinking Water Protection Criteria | Groundwater Surface Water Interface Protection Criteria | Residential Soil Volatilization to Indoor Air Inhalation Criteria | Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC) | Residential Particulate Soil Inhalation Criteria | Residential Direct Contact Criteria | Residential Soil Saturation Concentration Screening Levels | Maximum Concentration Detected | Sample Location | AKT-11 | AKT-12 | AKT-13 |
|---|----------------------------------|-------------------------------------|--|---|---|--|--|-------------------------------------|--|--------------------------------|-----------------|-----------|-----------|-----------|
| | | | | | | | | | | | Collection Date | 9/16/2015 | 9/16/2015 | 9/16/2015 |
| | | | | | | | | | | | Depth | (2-4') | (1-3') | (2-4') |
| <i>*(Refer to detailed laboratory report for method reference data)</i> | | | | | | | | | | | | | | |
| Metals | | | | | | | | | | | | | | |
| Arsenic | 7440-38-2 | 5,800 | 4,600 | 4,600 | NLV | NLV | 7.2E+5 | 7,600 | NA | 15,000 | | NS | NS | NS |
| Barium (B) | 7440-39-3 | 75,000 | 1.3E+6 | (G) | NLV | NLV | 3.3E+8 | 3.7E+7 | NA | 190,000 | | NS | NS | NS |
| Cadmium (B) | 7440-43-9 | 1,200 | 6,000 | (G,X) | NLV | NLV | 1.7E+6 | 5.5E+5 | NA | 1,200 | | 510 | 300 | 240 |
| Chromium, Total | 7440-47-3 | 18,000 (total) | 30,000 | 3,300 | NLV | NLV | 2.6E+5 | 2.5E+6 | NA | 31,000 | | 17,000 | 16,000 | 10,000 |
| Copper (B) | 7440-50-8 | 32,000 | 5.8E+6 | (G) | NLV | NLV | 1.3E+8 | 2.0E+7 | NA | 220,000 | | NS | NS | NS |
| Lead (B) | 7439-92-1 | 21,000 | 7.0E+5 | (G,X) | NLV | NLV | 1.0E+8 | 4.0E+5 | NA | 590,000 | | 160,000 | 12,000 | 30,000 |
| Mercury, Total | 7439-97-6 | 130 | 1,700 | 50 (M); 1.2 | 48,000 | 52,000 | 2.0E+7 | 1.6E+5 | NA | 320 | | NS | NS | NS |
| Selenium (B) | 7782-49-2 | 410 | 4,000 | 400 | NLV | NLV | 1.3E+8 | 2.6E+6 | NA | 1,900 | | NS | NS | NS |
| Silver (B) | 7440-22-4 | 1,000 | 4,500 | 100 (M); 27 | NLV | NLV | 6.7E+6 | 2.5E+6 | NA | 690 | | NS | NS | NS |
| Zinc (B) | 7440-66-6 | 47,000 | 2.4E+6 | (G) | NLV | NLV | ID | 1.7E+8 | NA | 390,000 | | NS | NS | NS |
| PCBs | | | | | | | | | | | | | | |
| Polychlorinated biphenyls (PCBs) (J,T) | 1336-36-3 | NA | NLL | NLL | 3.0E+6 | 2.4E+5 | 5.2E+6 | (T) | NA | <100 | | NS | NS | NS |
| Semivolatiles, PNAs | | | | | | | | | | | | | | |
| Anthracene | 120-12-7 | NA | 41,000 | ID | 1.0E+9 (D) | 1.4E+9 | 6.7E+10 | 2.3E+8 | NA | 500 | | <330 | <330 | <330 |
| Benzo(a)anthracene (Q) | 56-55-3 | NA | NLL | NLL | NLV | NLV | ID | 20,000 | NA | 1,300 | | 400 | <330 | <330 |
| Benzo(a)pyrene (Q) | 50-32-8 | NA | NLL | NLL | NLV | NLV | 1.5E+6 | 2,000 | NA | 1,300 | | 360 | <330 | <330 |
| Benzo(b)fluoranthene (Q) | 205-99-2 | NA | NLL | NLL | ID | ID | ID | 20,000 | NA | 1,900 | | 500 | <330 | <330 |
| Benzo(k)fluoranthene (Q) | 207-08-9 | NA | NLL | NLL | NLV | NLV | ID | 2.0E+5 | NA | 650 | | <330 | <330 | <330 |
| Chrysene (Q) | 218-01-9 | NA | NLL | NLL | ID | ID | ID | 2.0E+6 | NA | 1,300 | | 420 | <330 | <330 |
| Fluoranthene | 206-44-0 | NA | 7.3E+5 | 5,500 | 1.0E+9 (D) | 7.4E+8 | 9.3E+9 | 4.6E+7 | NA | 2,900 | | 870 | <330 | 410 |
| Indeno(1,2,3-cd)pyrene (Q) | 193-39-5 | NA | NLL | NLL | NLV | NLV | ID | 20,000 | NA | 440 | | <330 | <330 | <330 |
| 2-Methylnaphthalene | 91-57-6 | NA | 57,000 | 4,200 | 2.7E+6 | 1.5E+6 | 6.7E+8 | 8.1E+6 | NA | 880 | | <330 | <330 | <330 |
| Phenanthrene | 85-01-8 | NA | 56,000 | 2,100 | 2.8E+6 | 1.6E+5 | 6.7E+6 | 1.6E+6 | NA | 2,100 | | 560 | <330 | <330 |
| Pyrene | 129-00-0 | NA | 4.8E+5 | ID | 1.0E+9 (D) | 6.5E+8 | 6.7E+9 | 2.9E+7 | NA | 2,100 | | 770 | <330 | 400 |
| Remaining PNAs | Varies | - | - | - | - | - | - | - | - | - | | BDL | BDL | BDL |
| Volatiles | | | | | | | | | | | | | | |
| Tetrachloroethylene | 127-18-4 | NA | 100 | 1,200 (X) | 11,000 | 1.7E+5 | 2.7E+9 | 2.0E+5 (C) | 88,000 | 85 | | <50 | <50 | <50 |
| Toluene (I) | 108-88-3 | NA | 16,000 | 5,400 | 3.3E+5 (C) | 2.8E+6 | 2.7E+10 | 5.0E+7 (C) | 2.5E+5 | 220 | | <50 | <50 | <50 |
| 1,2,4-Trimethylbenzene (I) | 95-63-6 | NA | 2,100 | 570 | 4.3E+6 (C) | 2.1E+7 | 8.2E+10 | 3.2E+7 (C) | 1.1E+5 | 120 | | <100 | <100 | <100 |
| Xylenes (I) | 1330-20-7 | NA | 5,600 | 820 | 6.3E+6 (C) | 4.6E+7 | 2.9E+11 | 4.1E+8 (C) | 1.5E+5 | 450 | | <150 | <150 | <150 |
| Remaining VOCs | Varies | - | - | - | - | - | - | - | - | - | | BDL | BDL | BDL |

Table 2: Summary of Groundwater Analytical Results
224-310 Piquette Avenue
Detroit, Michigan
AKT Peerless Project No. 10279F-2-20

| Parameters* | Chemical Abstract Service Number | Residential Drinking Water Criteria | Groundwater Surface Water Interface Criteria | Residential Volatilization to Indoor Air Inhalation Criteria | Water Solubility | Flammability and Explosivity Screening Level | Maximum Concentration Detected | Sample Location | AKT-13 (W) | | | | | | | |
|--|----------------------------------|-------------------------------------|--|--|------------------|--|--------------------------------|-----------------|------------|--|--|--|--|--|--|--|
| | | | | | | | | Collection Date | 9/16/2015 | | | | | | | |
| *(Refer to detailed laboratory report for method reference data) | | | | | | | | | | | | | | | | |
| Semivolatiles, PNAs | | | | | | | | | | | | | | | | |
| Acenaphthene | 83-32-9 | 1,300 | 38 | 4,200 (S) | 4,240 | ID | <5.0 | | <5.0 | | | | | | | |
| Acenaphthylene | 208-96-8 | 52 | ID | 3,900 (S) | 3,930 | ID | <5.0 | | <5.0 | | | | | | | |
| Anthracene | 120-12-7 | 43 (S) | ID | 43 (S) | 43.4 | ID | <5.0 | | <5.0 | | | | | | | |
| Benzo(a)anthracene (Q) | 56-55-3 | 2.1 | ID | NLV | 9.4 | ID | <1.0 | | <1.0 | | | | | | | |
| Benzo(a)pyrene (Q) | 50-32-8 | 5.0 (A) | ID | NLV | 1.62 | ID | <1.0 | | <1.0 | | | | | | | |
| Benzo(b)fluoranthene (Q) | 205-99-2 | 1.5 (S, AA) | ID | ID | 1.5 | ID | <1.0 | | <1.0 | | | | | | | |
| Benzo(g,h,i)perylene | 191-24-2 | 1.0 (M); 0.26 (S) | ID | NLV | 0.26 | ID | <1.0 | | <1.0 | | | | | | | |
| Benzo(k)fluoranthene (Q) | 207-08-9 | 1.0 (M); 0.8 (S) | NA | NLV | 0.8 | ID | <1.0 | | <1.0 | | | | | | | |
| Chrysene (Q) | 218-01-9 | 1.6 (S) | ID | ID | 1.6 | ID | <1.0 | | <1.0 | | | | | | | |
| Dibeno(a,h)anthracene (Q) | 53-70-3 | 2.0 (M); 0.21 | ID | NLV | 2.49 | ID | <2.0 | | <2.0 | | | | | | | |
| Fluoranthene | 206-44-0 | 210 (S) | 1.6 | 210 (S) | 206 | ID | <1.0 | | <1.0 | | | | | | | |
| Fluorene | 86-73-7 | 880 | 12 | 2,000 (S) | 1,980 | ID | <5.0 | | <5.0 | | | | | | | |
| Indeno(1,2,3-cd)pyrene (Q) | 193-39-5 | 2.0 (M); 0.022 (S) | ID | NLV | 0.022 | ID | <2.0 | | <2.0 | | | | | | | |
| 2-Methylnaphthalene | 91-57-6 | 260 | 19 | 25,000 (S) | 24,600 | ID | <5.0 | | <5.0 | | | | | | | |
| Phenanthrene | 85-01-8 | 52 | 2.0 (M); 1.4 | 1,000 (S) | 1,000 | ID | <2.0 | | <2.0 | | | | | | | |
| Pyrene | 129-00-0 | 140 (S) | ID | 140 (S) | 135 | ID | <5.0 | | <5.0 | | | | | | | |
| Volatiles | | | | | | | | | | | | | | | | |
| Benzene (l) | 71-43-2 | 5.0 (A) | 200 (X) | 5,600 | 1.75E+6 | 68,000 | <1.0 | | <1.0 | | | | | | | |
| Ethylbenzene (l) | 100-41-4 | 74 (E) | 18 | 1.1E+5 | 1.69E+5 | 43,000 | <1.0 | | <1.0 | | | | | | | |
| Toluene (l) | 108-88-3 | 790 (E) | 270 | 5.3E+5 (S) | 5.26E+5 | 61,000 | <1.0 | | <1.0 | | | | | | | |
| Xylenes (l) | 1330-20-7 | 280 (E) | 41 | 1.9E+5 (S) | 1.86E+5 | 70,000 | <3.0 | | <3.0 | | | | | | | |
| Remaining VOCs | Varies | - | - | - | - | - | - | | BDL | | | | | | | |

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C_{sat}). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific C_{sat} or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or $1.0E+9$ parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120(a)(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO₃/L, use 400 mg CaCO₃/L for the FCV calculation. The FCV formula provides values in units of ug/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote. [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 ug/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 ug/L is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 ug/L, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 ug/L to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 ug/L. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of $2.0E+5$ ug/kg.
- (O) The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 or R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup criteria.
- (P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120(a)(5) of the NREPA. Concentrations up to 200 ug/L may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 ug/kg.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) in R 299.49.
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 ug/L where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 ug/L for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) **Groundwater:** The generic GSI criteria are based on the toxicity of unionized ammonia (NH₃); the criteria are 29 ug/L and 53 ug/L for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH₃ in the surface water. This percent NH₃ is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH₃ assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH₃ is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen (NH₃-N) concentration in the groundwater and the resulting NH₃ concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
- (DD) Soil: The generic soil GSI protection criteria for unionized ammonia are 580 ug/kg and 1,100 ug/kg for cold water and warm water surface water, respectively.
- (EE) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (FF) The values listed in the table in Footnote (EE) in 299.49 are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or $8.4E+6$ ug/m³.
- (HH) The residential criterion for sodium is 230,000 ug/L in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- (ID) Insufficient data to develop criterion.
- (NA) A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- (NLL) Hazardous substance is not likely to leach under most soil conditions.
- (NLV) Hazardous substance is not likely to volatilize under most conditions.
- ug/kg Micrograms per kilogram
- ug/L Micrograms per liter
- NS Not sampled
- BDL Below Laboratory Method Detection Limits
- BOLD** Exceeds highlighted criteria.

Appendix A

Targeted Geophysical Survey



TARGETED GEOPHYSICAL SURVEY

224-310 Piquette Avenue, Detroit, Michigan

PREPARED FOR Detroit-Wayne County Brownfields Coalition
500 Griswold St., Floor 30
Detroit, Michigan 48226

and

Jacobstreet LLC
PO Box 160
Detroit, Michigan

FUNDED BY U.S. EPA Brownfield Assessment Grant
Cooperative Agreement No. BF-00E01241

PROJECT # 10279F-2-20

DATE September 15, 2015

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ATTACHMENTS

Figure 1 – Electromagnetic Induction Contour Map

Geophysical Survey Photo Log

TARGETED GEOPHYSICAL SURVEY

224-310 Piquette Avenue, Detroit, Michigan

AKT Peerless Project No. 10279f-2-20

1.0 Introduction

Jacobstreet, LLC through The Detroit-Wayne County Brownfields Coalition (DWBC) retained AKT Peerless to conduct a Targeted Geophysical Survey of a portion of the property located at 224-310 Piquette Avenue in Detroit, Wayne County, Michigan (subject property). This geophysical survey was conducted in accordance with AKT Peerless' Proposal for a Phase II Environmental Site Assessment (Proposal Number PF-17695), dated July 9, 2015.

This Targeted Geophysical Survey scope of work is intended to evaluate the subject property for evidence of buried metallic objects such as potential underground storage tanks (USTs). This Geophysical Survey report documents the field activities, protocols, and results used to make these determinations. This Targeted Geophysical Survey was performed for the benefit of Jacobstreet, LLC and the DWBC, whom may rely on the contents and conclusions of this report.

2.0 Survey Rationale

2.1 Overview

In order to design and implement a geophysical survey to fulfill the objectives as discussed in Section 1.0, one must first obtain a conceptual understanding of the anticipated background conditions and the likely nature of the anomalous conditions that will be generated by the target features. Based on this knowledge, geophysical survey equipment and technique(s) can then be evaluated and selected and the appropriate survey configuration(s) determined. The following sections of this report provide an overview of the process that was adopted for this study and provides an overview of the theory behind the geophysical techniques utilized.

2.2 Anticipated Site Conditions

Based on published information obtained during the completion of AKT Peerless' Phase I ESA, it was anticipated that the shallow subsurface soils on site are likely comprised of nearly level to gently sloping, poorly drained to somewhat poorly drained soils that have a fine-textured to moderately fine-textured subsoil.

Based on the expected soil conditions evaluated prior to the field exploration, it was anticipated that the presence of non-soil objects would represent significant indications of anomalies to both the physical properties and the layering within the top portion (upper six feet) of the target areas. It was on this understanding that the selection of Electromagnetic Induction (EMI) and Ground Penetrating Radar (GPR) techniques were selected.

2.3 Electromagnetic Induction

This geophysical technique is based on the principal that when a conductive body is placed in an electromagnetic field, ‘eddy currents’ are induced within that body. In turn, those ‘eddy currents’ generate their own, secondary electromagnetic field. The most common parameter deduced from the EMI technique is the average bulk conductivity of the subsurface, which is proportional to the ratio of primary and secondary electromagnetic field strengths. This is known as the apparent conductivity and is expressed in terms of millSiemens per meter (mS/m).

A second parameter that is usually inferred is the in-Phase response that is related to the difference in the phase of the primary and secondary electromagnetic fields. This measurement is commonly associated with the presence of metallic features within the subsurface, which cause the secondary field to be “out of phase” with the primary field, resulting in non-zero in-phase responses, which are measured in parts per million.

The frequency of the wave determines the depth of penetration. A high frequency is used for shallow penetration and a low frequency is used for a deeper penetration. The soil conditions will also determine how deep the wave can travel. Highly conductive conditions (clay) means a deeper penetration and low conductive conditions (dry sand), means a shallower penetration.

For this survey, AKT Peerless used a GSSI EMP-400 multi frequency EMI profiler with integrated GPS (EMP-400). The EMI survey was performed in “continuous survey” mode along 5-foot spaced transects. Three EMI exploration frequencies (1,000 Hz, 6,000 Hz, and 12,000 Hz) were selected for the site to evaluate the subsurface at varying depths.

The EMI profiler contains two sets of coils that are located within opposite sides of the instrument. One set of coils is used to transmit a primary magnetic field, generating electrical current in the ground. The created current then generates a secondary magnetic field, which is sensed by the coils in the receiver end of the instrument. Data is then collected on a control unit indicating the apparent conductivity of the earth in the study area.

The magnitude of the secondary field is broken into two orthogonal components. The two components of the secondary magnetic field are in-phase (real component) and the quadrature or out-of-phase (imaginary component). For instruments operating with a Low Induction Number (LIN) approximation, the magnitude of the quadrature component of the secondary field is linearly proportional to the apparent conductivity. The in-phase measurement is most sensitive to buried metallic objects and can be used to locate buried steel reinforced structures, USTs, large utility pipes, and other metallic targets.

In the absence of a highly conductive material (e.g. metallic targets) in the subsurface, the magnitude of the in-phase component is dependent on the magnetic susceptibility of the subsurface. The EMP-400 allows multiple frequency measurements at each survey station. The depth of exploration depends on the operating frequencies, target size and shape, and host-target conductivity.

Site conditions that can limit, even preclude EMI data interpretation include: urban or developed areas, thunderstorms and nearby metallic objects at or above the ground surface such as parked vehicles near the survey stations, reinforced concrete, metal siding, overhead power lines, metal fence/guard rail, and manhole covers, etc. Areas of a site that may be difficult or impossible to survey include: steep slopes, standing water areas, overgrown vegetation areas, and obstructed areas.

Data from the electromagnetic induction mapping technique is typically acquired along a series of closely spaced profiles and presented as a series of contour plots. From these contour plots, the extent of identified anomalies can be inferred. Estimates regarding the depth of the causative features of these anomalies are limited to the sampling depth of the equipment (i.e. within six feet of the ground surface).

It was anticipated that the presence of non-soil objects within the shallow subsurface would represent an anomaly to an otherwise uniform bulk average conductivity distribution (quadrature response). The nature of this anomaly would be dependent upon the characteristics and dimensions of the non-soil object. It was also anticipated that inferring the presence of metallic anomalies and their differentiation with non-metallic objects could also be achieved through analysis of their respective in-phase responses.

2.4 Ground Penetrating Radar

This geophysical survey technique utilizes a short duration, high frequency electromagnetic impulse that is transmitted into the subsurface. Whenever a contrast in dielectric properties of the subsurface is encountered, some of the transmitted impulse is reflected back to the surface. The strength of the reflected signal is proportional to the magnitude of the contrast in dielectric properties. The propagation (and reflection) of the radar impulse depends on the properties of the subsurface and is greatly influenced by the moisture content and the presence of clay-rich minerals. In general, the depth and resolution of the data is largely dependent upon the conductivity and moisture content of the ground. An increase in depth penetration and resolution is generally expected within dry, electrically resistive ground.

Another factor that influences the depth penetration and resolution of the data is the frequency of the impulse. Low frequency radar impulses are generally attenuated less by the electrical properties, and therefore penetrate to greater depths. However, with this increase in depth penetration comes a decrease in resolution. For example, a 400 megahertz (MHz) antenna may sample to a depth of eight feet (under ideal ground conditions) with a resolution suitable for detecting utilities and USTs, but a 1,500 MHz antenna will only sample to one to two feet, with a vertical and lateral resolution suitable for detecting smaller diameter reinforcement.

For this survey, AKT Peerless employed a GSSI SIR-3000 GPR system with a 400-megahertz (MHz) dipole antenna. Based on the expected soil conditions, a depth penetration between four to six feet below ground surface (bgs) was anticipated.

Ground Penetrating radar data is generally acquired along individual traverses or profiles. The resulting radargram recorded along each profile is in the form of a pseudo-depth section, with the horizontal axis denoting distance and the vertical axis denoting the two-way travel time. This two-way travel time can be converted to an estimated depth, if the dielectric properties of the subsurface are known.

Anomalous features within the radargram can be identified as both changes in the reflection amplitude and appearance. The locations and approximate depths of these features are then transposed onto plans of the survey area, from which interpretations regarding the subsurface conditions can be inferred.

It was anticipated that the presence of a non-soil object might manifest in the GPR data as a variation in reflection amplitude (due to contrasting properties) and/or a discrete reflection (due to the limited lateral extent of the non-soil object with respect to the anticipated nature of the surrounding subsurface conditions).

3.0 Geophysical Survey Activities

On September 14, 2015, an AKT Peerless team trained and certified in the theory and practice of applying subsurface interface radar in engineering and geophysical investigations completed a combined EMI and GPR survey of targeted portions of the subject property. This survey targeted locations where historical information suggested that UST(s) might have been present.

3.1 EMI Survey Methodologies

As described in Section 2.3, The EMI Survey was performed in “continuous survey” mode along 5 foot spaced transects. AKT Peerless used a GSSI EMP-400 multi-frequency EMI profiler with integrated GPS. Three EMI exploration frequencies (1,000 Hz, 6,000 Hz, and 12,000 Hz) were selected for this site.

Prior to the EMI survey, field, operator, and zero in-phase calibrations were performed at the site. In “continuous survey” mode, data was acquired as a fixed time interval while the operator walked along a survey line at a steady pace. Both in-phase (metal sensitive) and quadrature (terrain conductivity) measurements were acquired during the EMI survey. These measurements were automatically stored in a wireless data logger, and were later downloaded to a computer for subsequent processing. Two software packages were utilized to define suspect areas (MagMap 2000 and Surfer).

3.2 GPR Survey Methodologies

As discussed in Section 2.4, the GPR survey was performed along 5 foot spaced transects and to better understand anomalous targets identified subsequent to the completion of the EMI survey. AKT Peerless used a GSSI SIR-3000 GPR system with a 400-MHz dipole antenna mounted on a wheeled cart to scan the survey area. Several test scans were completed to observe the overall GPR responses to setup survey parameters prior to the GPR survey. A survey wheel was used to acquire distance-based data at the density of 18 scans per foot. Anomalous reflective objects/structures were noted and marked on the ground surface during the data acquisition. The GPR data were automatically stored in a data logger, and later downloaded to a computer for subsequent processing. The data processing consisted of Time-Zero adjustment (time zero of the vertical scale aligned with the surface reflection) and Background Removal (horizontal banding) to the GPR scans.

4.0 Evaluation and Presentation of Results

Apparent Conductivity

Both abnormally low and high EMI derived electrical conductivities are often indications of buried metal. In **Figure 1**, interpreted high conductivity values are contoured in red. Low to intermediate conductivities are blue, yellow, and orange. Abnormally low conductivities were not encountered. Assuming the surrounding area does not represent fill material, background conductivities are roughly interpreted, as approximately zero mS/m.

Abnormally high conductivities are often observed when approaching buried metal or over metal buried too deep to yield a negative EMI response. Hence, conductivities significantly above background can also be interpreted as an indication of buried metal. High conductivity values are colored in red in **Figure 1**. AKT Peerless identified abnormally high conductivity values along the southeastern portion of the subject property and along the northern portion of the subject property. These elevated conductivity values are generally interpreted to be associated with cultural interference, an increase in clay content,

an increase in saturation, an increase in pore fluid conductivity, a heavy mineral deposit with a higher magnetic susceptibility than the surrounding area, fill material, and/or subsurface contamination.

In-Phase Response

The in-phase response of the EMI often is more sensitive to buried metal than is the measurement of apparent conductivity. The interpretation is similar to the conductivity results in that abnormally high or low values of the in-phase response are considered an indication of buried metal. The in-phase results are presented in **Figure 1**. In **Figure 1**, the background response is interpreted, between -10,000 and 50,000 parts per million (ppm). Interpreted abnormally high in-phase responses, greater than 150,000 ppm, are colored red. Abnormally high inphase measurements were interpreted as being consistent with cultural interference.

Targeted GPR Survey

Based on the GPR line scan measurements, the shape, strength and ring-down of the reflections were not similar to the GPR response that is often observed over buried metallic objects and AKT Peerless did not identify the potential presence of large buried metallic objects in the survey area.

5.0 Conclusions and Recommendations

AKT Peerless' geophysical survey did not identify areas that were interpreted as being consistent with the measurements commonly associated with underground storage tanks. The correlation of any anomaly to a feature does not clear the area of any other possible sources. Though remaining portions of the site do not appear to show clear and obvious anomalies indicating the possible presence of buried metal, this survey does not conclude that underground storage tanks or other forms of buried metal are absent in these regions.

6.0 Limitations

The objective of any geophysical survey is to define the existence and configuration of features at depth. However, these features may bear a highly complex relationship to the geophysical measurements recorded. Therefore, conclusions drawn, no matter how logically deduced, should not be misconstrued as final fact. No warranty, certification, or statement of fact, either expressed or implied, regarding actual subsurface conditions within the surveyed area(s) is contained herein. If uncertainties exist regarding subsurface anomalies, test pit excavations should be conducted to explore the actual subsurface conditions.

Please be advised that EMI and GPR accuracy are highly dependent on a number of factors (i.e., anomaly size, soil types, groundwater table depth, construction materials, etc.), that may be out the control of the operator and data interpreter. The interpretation of subsurface conditions cannot be made in areas of the property not surveyed or in areas with steel reinforced concrete. No targets can be identified below the maximum penetration depth or the local water table. Targets must have a distinct contrast in dielectric properties relative to the surrounding materials in order to be detected (i.e., a concrete pipe may not be detectable in dry, crushed aggregate). The EMI and GPR Geophysical methods cannot determine the exact nature of an anomaly. Please note that the survey data reflects site conditions on the day of the field survey.

During the completion of the Geophysical Survey of the subject property, AKT Peerless encountered the following limiting conditions:

- Cultural interference within or in close proximity to the study area included buildings, metal fencing, metal storage containers, piles of metallic debris, overhead electrical lines, underground utilities, bleachers, piles of soil, and overgrown vegetation. Refer to the attached photo log for pictures taken during the completion of the geophysical survey.

7.0 Project Resources and References

AKT Peerless referred to the following resources between September 11, 2015 and September 15, 2015 to complete its Targeted Geophysical Survey:

- USDA's publication Soil Survey of Wayne County Area, Michigan (1977) United States Geological Survey (USGS)
- "Subject Property." 42.367333° N and -83.066865° W. **Google Earth**. April 11, 2015. September 15, 2015.

8.0 Closing

The following individuals contributed to the completion of this investigation.



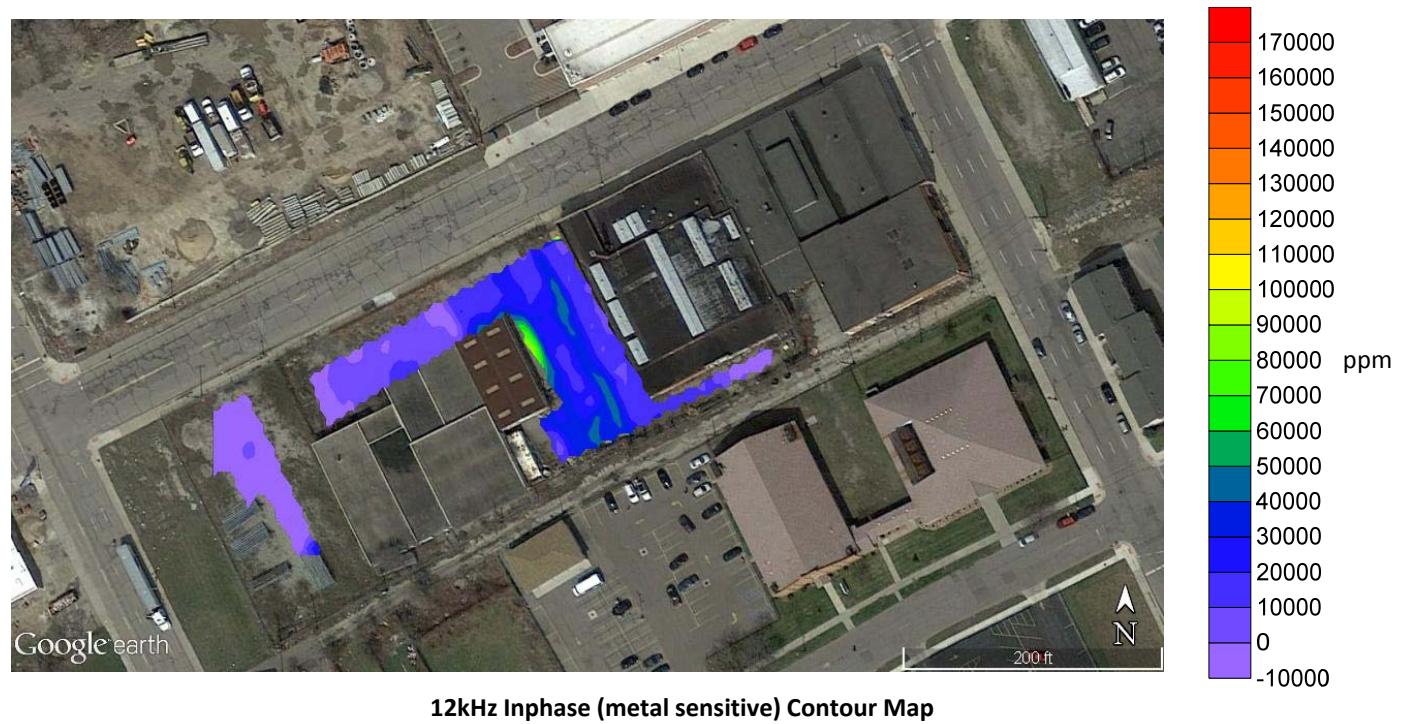
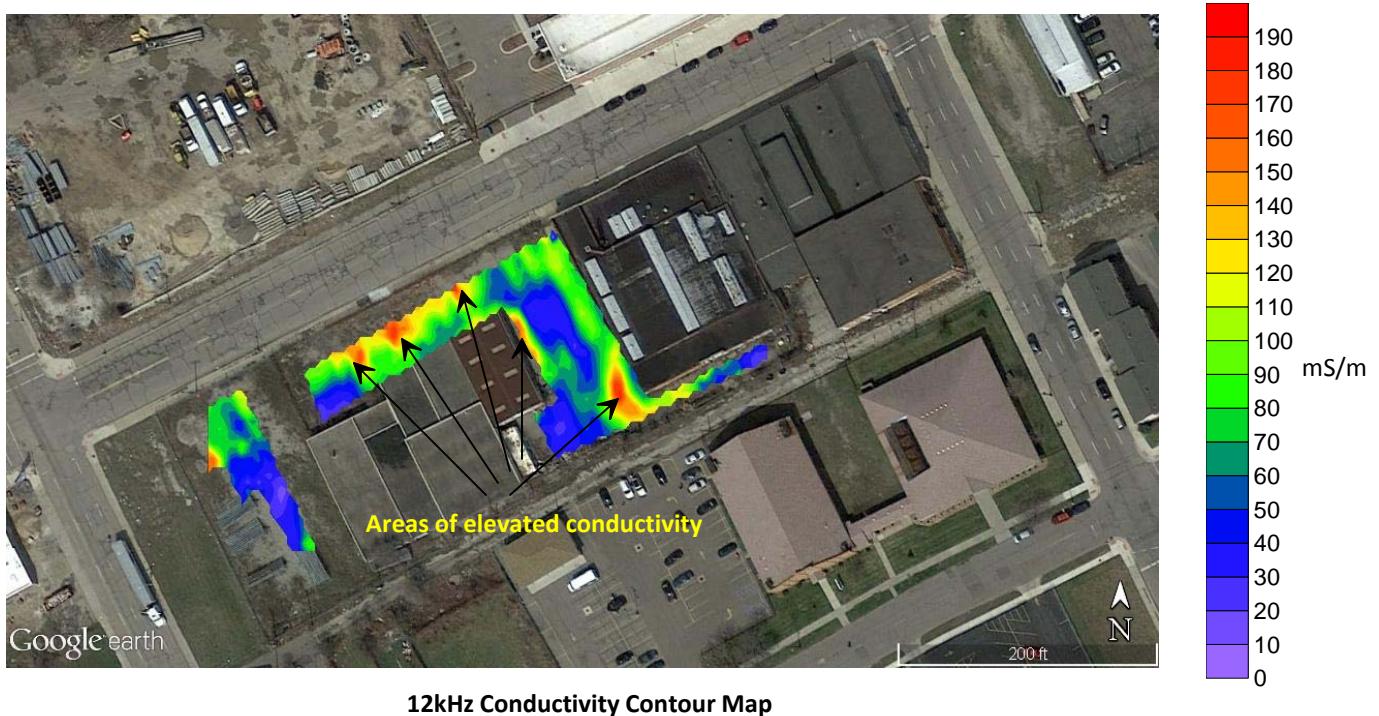
Matthew Burmann
Environmental Consultant
AKT Peerless



Jeremy Fox
Project Manager
AKT Peerless
Phone: (248) 615-1333
Email: foxj@aktpeerless.com

Figures

Figure 1 - Electromagnetic Induction Contour Map



Geophysical Survey Photo Log



SOUTHEASTERN PORTION OF PARCEL A



SOUTHERN PORTION OF PARCEL A



WEST OF SUBJECT BUILDING 1



WEST OF SUBJECT BUILDING 1

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279f



WEST OF SUBJECT BUILDING 1



NORTHERN PORTION OF PARCEL A

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279F



NORTHERN PORTION OF PARCEL A



NORTHERN PORTION OF PARCEL A

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279f



NORTHERN PORTION OF PARCEL A



NORTHERN PORTION OF PARCEL A

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279f



NORTHERN PORTION OF PARCEL A



WESTERN PORTION OF PARCEL A



WESTERN PORTION OF PARCEL A



WESTERN PORTION OF PARCEL A

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279f



WESTERN PORTION OF PARCEL A



WESTERN PORTION OF PARCEL A

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279f



WESTERN PORTION OF PARCEL C



WESTERN PORTION OF PARCEL C



PARCEL C



WESTERN PORTION OF PARCEL C

AKT PEERLESS

GEOPHYSICAL SURVEY PHOTOGRAPHS

224-310 PIQUETTE AVENUE
DETROIT, MICHIGAN

TAKEN BY: JDF
DATE: 09/14/2015

PROJECT NUMBER: 10279f

Appendix B

Soil Boring Logs

AKTPEERLESS

BORING LOG
224-310 Piquette Avenue
Detroit, Michigan
AKT Peerless Project No: 10279F-2-20

AKT-1Drawn By: K.Sayyae
Date: 9/21/2015

| | | | |
|-------------------|--------------|------------------|----------------|
| DRILLING COMPANY: | AKT Peerless | WEATHER: | Sunny, 85 F |
| TECHNICIAN: | Bill Fox | BORING DEPTH: | 12 Feet |
| DATE DRILLED: | 09/16/15 | DEPTH TO GW: | 5.5 Feet |
| DRILLING METHOD: | Geoprobe | SCREEN INTERVAL: | Not applicable |
| FIELD GEOLOGIST: | Kyle Sayyae | SCREEN MATERIAL: | Not applicable |

| DEPTH FEET | SAMPLE INTERVAL | % RECOVERY | PID VALUE | USCS SOIL CLASS. | COLOR | GEOLOGIC DESCRIPTION | | MOISTURE | TEMPORARY WELL DIAGRAM |
|------------|-----------------|------------|-----------|---------------------|-------|---|-------|----------|------------------------|
| | | | | | | | | | |
| 2 | | 85 | <0.1 | Dark Brown to Black | | Concrete FILL: medium grained sand, soft clay, trace gravel, glass, masonry debris | | M | |
| 4 | | 100 | <0.1 | | | CL | Brown | M | ▽ |
| 6 | | | | | | CLAY: medium stiff to stiff, trace gravel | | | |
| 8 | | | | | | | | | |
| 10 | | 100 | <0.1 | | | | | | |
| 12 | | | | | | End of Boring | | | |
| 14 | | | | | | Insufficient quantity of groundwater to sample. | | | |
| 16 | | | | | | | | | |
| 18 | | | | | | | | | |
| 20 | | | | | | | | | |



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-2

Drawn By: K.Sayyae

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-3

Drawn By: K.Sayyae

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-4

Drawn By: K.Sayyae

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-5

Drawn By: K.Sayyae

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-6

Drawn By: K.Sayya

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-7

Drawn By: K.Sayyae

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-8

Drawn By: K.Sayyae

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-9

Drawn By: K.Sayyaee

Date: 9/21/2015



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-10

Drawn By: K.Sayyae

Date: 9/21/2015

| Drilling Company: AKT Peerless | | | | Weather: Sunny, 85 F | | | | |
|--------------------------------|-----------------|------------|-----------|---------------------------------|------------|---|----------|------------------------|
| Technician: Bill Fox | | | | Boring Depth: 15 Feet | | | | |
| Date Drilled: 09/16/15 | | | | Depth to GW: Not encountered | | | | |
| Drilling Method: Geoprobe | | | | Screen Interval: Not applicable | | | | |
| Field Geologist: Kyle Sayyaee | | | | Screen Material: Not applicable | | | | |
| Depth Feet | Sample Interval | % Recovery | PID Value | USCS Soil Class. | Color | GEOLOGIC DESCRIPTION | Moisture | Temporary Well Diagram |
| | | | | | | Asphalt | | |
| 2 | | 75 | <0.1 | | Brown/Gray | FILL: soft clay, mottled, gravel, masonry debris | M | |
| 4 | | | | | | | | |
| 6 | | 100 | <0.1 | CL | Brown/Gray | CLAY: stiff, mottled, trace sand and gravel | M | |
| 8 | | | | | | | | |
| 10 | | 100 | <0.1 | | | | | |
| 12 | | | | | | | | |
| 14 | | 90 | <0.1 | CL | Brown | CLAY: stiff, trace sand and gravel | D | |
| 16 | | | | | | | | |
| 18 | | | | | | | | |
| 20 | | | | | | End of Boring Due to Refusal (Stiff Clay) | | |

AKTPEERLESS

BORING LOG
224-310 Piquette Avenue
Detroit, Michigan
AKT Peerless Project No: 10279F-2-20

AKT-11

Drawn By: K.Sayyae
Date: 9/21/2015

| | | | |
|-------------------|--------------|------------------|-----------------|
| DRILLING COMPANY: | AKT Peerless | WEATHER: | Sunny, 85 F |
| TECHNICIAN: | Bill Fox | BORING DEPTH: | 14 Feet |
| DATE DRILLED: | 09/16/15 | DEPTH TO GW: | Not encountered |
| DRILLING METHOD: | Geoprobe | SCREEN INTERVAL: | Not applicable |
| FIELD GEOLOGIST: | Kyle Sayyae | SCREEN MATERIAL: | Not applicable |

| DEPTH FEET | SAMPLE INTERVAL | % RECOVERY | PID VALUE | USCS SOIL CLASS. | COLOR | GEOLOGIC DESCRIPTION | | MOISTURE | TEMPORARY WELL DIAGRAM |
|------------|-----------------|------------|-----------|------------------|-------|----------------------|---|----------|------------------------|
| | | | | | | | Asphalt | | |
| 2 | 75 | <0.1 | 100 | <0.1 | CL | Black | FILL: medium grained sand, gravel, glass, masonry debris, petroleum staining | M | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 4 | 100 | <0.1 | 80 | <0.1 | CL | Black | CLAY: soft, with sand, petroleum staining | M | |
| | | | | | | | | | |
| | | | | | | | | | |
| 6 | 100 | <0.1 | 100 | <0.1 | CL | Brown/Gray | CLAY: medium stiff, mottled, trace sand and gravel | M | |
| | | | | | | | | | |
| 8 | 100 | <0.1 | 80 | <0.1 | CL | Brown | CLAY: stiff, trace sand and gravel | D | |
| | | | | | | | | | |
| 10 | 100 | <0.1 | 100 | <0.1 | | | | | |
| | | | | | | | | | |
| 12 | 100 | <0.1 | 80 | <0.1 | | | | | |
| | | | | | | | | | |
| 14 | 100 | <0.1 | 80 | <0.1 | | | | | |
| | | | | | | | | | |
| 16 | 100 | <0.1 | 80 | <0.1 | | | | | |
| | | | | | | | | | |
| 18 | 100 | <0.1 | 80 | <0.1 | | | | | |
| | | | | | | | | | |
| 20 | 100 | <0.1 | 80 | <0.1 | | | | | |
| | | | | | | | | | |

End of Boring Due to Refusal (Stiff Clay)



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-12

Drawn By: K.Sayyae

Date: 9/21/2015

| Drilling Company: | | | AKT Peerless | | | Weather: | | Sunny, 85 F |
|-------------------|-----------------|------------|--------------|------------------|------------|---|--|-----------------|
| Technician: | | | Bill Fox | | | Boring Depth: | | 12 Feet |
| Date Drilled: | | | 09/16/15 | | | Depth to GW: | | Not encountered |
| Drilling Method: | | | Geoprobe | | | Screen Interval: | | Not applicable |
| Field Geologist: | | | Kyle Sayyae | | | Screen Material: | | Not applicable |
| Depth Feet | Sample Interval | % Recovery | PID Value | USCS Soil Class. | Color | Geologic Description | | Moisture |
| 2 | 100 | 100 | <0.1 | | | Asphalt | | |
| 4 | | | | Brown | Brown | FILL: sand and gravel | | M |
| 6 | | | | CL | Brown/Gray | CLAY: medium stiff to stiff, mottled, trace gravel, petroleum staining | | M |
| 8 | | | | | | | | |
| 10 | | | | | | CLAY: stiff, trace gravel | | M |
| 12 | | | | | | | | |
| 14 | | | | | | End of Boring | | |
| 16 | | | | | | | | |
| 18 | | | | | | | | |
| 20 | | | | | | | | |



BORING LOG

224-310 Piquette Avenue

Detroit, Michigan

AKT Peerless Project No: 10279F-2-20

AKT-13

Drawn By: K.Sayyae

Date: 9/21/2015

Appendix C

Low-Flow Sampling Logs

| AKTPEERLESS | | LOW-FLOW SAMPLING LOG 224-310 Piquette Avenue Detroit, Michigan AKT Peerless Project No: 10279F-2-20 | | | | AKT-13 |
|---------------------|-------------|---|-----------|------------------|-------------|--------|
| WEATHER: | Sunny, 85 F | INITIAL STATIC WATER LEVEL (0.01 FEET): | | | 4.5 Feet | |
| TECHNICIAN: | Kyle Sayyae | WELL SCREEN INTERVAL (FEET BGS): | | | 3-8 Feet | |
| PURGING START TIME: | 1:00 | WELL SCREEN DIAMETER (INCHES): | | | 1-inch | |
| STABILIZATION TIME: | 1:38 | SAMPLE COLLECTION DATE: | | | 1:38 | |
| Time | pH | Conductivity | Turbidity | Dissolved Oxygen | Temperature | ORP/eh |
| (Minutes) | (units) | (mS/cm ³) | (NTU) | (mg/L) | (degrees F) | (mV) |
| 0 | 8.35 | 1.320 | 1000 | 4.90 | 22.37 | -76.9 |
| 3 | 7.8 | 1.279 | 1000 | 0.48 | 22.44 | -122.9 |
| 6 | 7.74 | 1.162 | 1000 | 0.30 | 27.59 | -159.8 |
| 9 | 7.72 | 1.202 | 998 | 0.25 | 22.39 | -165.1 |
| 12 | 7.72 | 1.234 | 680 | 0.25 | 22.17 | -163.6 |
| 15 | 7.72 | 1.234 | 668 | 0.23 | 22.09 | -164.9 |
| 18 | 7.72 | 1.254 | 508 | 0.24 | 22.25 | -167.6 |
| 21 | 7.73 | 1.270 | 456 | 0.23 | 22.17 | -166.6 |
| 24 | 7.73 | 1.276 | 389 | 0.23 | 22.03 | -168.3 |
| 27 | 7.73 | 1.292 | 347 | 0.22 | 22.09 | -171.5 |
| 30 | 7.75 | 1.327 | 256 | 0.27 | 22.09 | -172.8 |
| 33 | 7.74 | 1.344 | 250 | 0.27 | 21.91 | -171.5 |
| 36 | | | | | | |
| 39 | | | | | | |
| 42 | | | | | | |
| 45 | | | | | | |
| 48 | | | | | | |
| 51 | | | | | | |
| 54 | | | | | | |
| 57 | | | | | | |
| 60 | | | | | | |

Notes:

mS/cm³ - miliSiemens per centimeter cubed

NTU - Nephelometric Turbidity Units

F - Fahrenheit

mg/L - Milligrams per liter

mV - Millivolts

Appendix D

Laboratory Analytical Report

Thursday, September 24, 2015

Fibertec Project Number: 69779
Project Identification: 10279F-2-20 /10279F-2-20
Submittal Date: 09/17/2015

Mr. Kyle Sayya
AKT Peerless Environ. Svcs, Inc. - Farm. Hills
22725 Orchard Lake Road
Farmington Hills, MI 48336

Dear Mr. Sayya,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,



By Cheyenne Juntunen at 3:51 PM, Sep 24, 2015

For Daryl P. Strandbergh
Laboratory Director

Enclosures

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F: (231) 775-8584

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-1 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 1 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:00 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-001 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-1 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 18 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: | 69779-001 | Matrix: Soil/Solid | | |
|---|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-1 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 9100 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 78000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 360 | µg/kg | | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 15000 | µg/kg | | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 67000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 150000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 950 | µg/kg | | 200 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | U | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 72000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: | 69779-001 | Matrix: Soil/Solid | | |
|------------------------------|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-1 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | 320 | µg/kg | | 50 | 9.7 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-001A | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------|------------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-1 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | µg/kg | | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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F: (231) 775-8584

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-1 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 1 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:00 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-1 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 1 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:00 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-001A | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|--------------------------|------------|--------------------|----------|-------|
| | | | | | | Description: AKT-1 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 61 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: | 69779-001 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------------------|-----------|--------------------|----------|-------|
| | | | | | | Description: AKT-1 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 2. Acenaphthylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 3. Anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 4. Benzo(a)anthracene (SIM) | 890 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 5. Benzo(a)pyrene (SIM) | 880 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 6. Benzo(b)fluoranthene (SIM) | 1300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 8. Benzo(k)fluoranthene (SIM) | 390 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 9. Chrysene (SIM) | 970 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 11. Fluoranthene (SIM) | 1800 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 12. Fluorene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 15. Phenanthrene (SIM) | 960 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 16. Pyrene (SIM) | 1500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

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|---|--|---|---|
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|---|--|---|---|

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-2 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 2 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:15 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-002 | | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-2 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 16 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | | | | | |
| | | | | | | Aliquot ID: 69779-002 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-2 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 15000 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 190000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 990 | µg/kg | | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 15000 | µg/kg | | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 220000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 590000 | µg/kg | | 1000 | 100 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 1900 | µg/kg | | 200 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | 690 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 390000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: 69779-002 | | Matrix: Soil/Solid | | |
|------------------------------|--------|-------|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-2 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | 84 | µg/kg | | 50 | 8.3 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) | | | | | | Aliquot ID: 69779-002 | | Matrix: Soil/Solid | | |
|---|--------|-------|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-2 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Aroclor-1016 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 2. Aroclor-1221 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 3. Aroclor-1232 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 4. Aroclor-1242 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 5. Aroclor-1248 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 6. Aroclor-1254 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 7. Aroclor-1260 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| ‡ 8. Aroclor-1262 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| ‡ 9. Aroclor-1268 | U | µg/kg | | 100 | 5.0 | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |

| | | | |
|---|--|---|---|
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|---|--|---|---|

| | | | | | |
|------------------------|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-2 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 2 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:15 |

Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted.

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-2 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 2 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:15 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | 85 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | 86 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m,p-Xylene | 130 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | 62 | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | 190 | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 2. Acenaphthylene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 3. Anthracene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 4. Benzo(a)anthracene (SIM) | 340 | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 5. Benzo(a)pyrene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 6. Benzo(b)fluoranthene (SIM) | 410 | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |

| | | | |
|---|--|---|---|
| 1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail | Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601 | T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368 | F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584 |
|---|--|---|---|

| | | | | | |
|------------------------|---|---------------------|--------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-2 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 2 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:15 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID: 69779-002** **Matrix: Soil/Solid**
Description: AKT-2 (1-3)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|------------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 9. Chrysene (SIM) | 420 | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 11. Fluoranthene (SIM) | 570 | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 12. Fluorene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 15. Phenanthrene (SIM) | 550 | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |
| 16. Pyrene (SIM) | 490 | | µg/kg | 330 | 10 | 09/18/15 | PS15I18E | 09/21/15 | S615I21A | TKT |

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| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-3 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 3 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-003 | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-3 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 7.1 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | | | | | |
| | | | | | | Aliquot ID: 69779-003 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-3 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 5500 | | µg/kg | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 22000 | F | µg/kg | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 100 | | µg/kg | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 21000 | F | µg/kg | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 14000 | | µg/kg | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 24000 | F | µg/kg | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 250 | | µg/kg | 200 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | | U | µg/kg | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 31000 | F | µg/kg | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: 69779-003 | | Matrix: Soil/Solid | | |
|------------------------------|--------|---|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-3 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | U | F | µg/kg | 50 | 8.6 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) | | | | | | Aliquot ID: 69779-003 | | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-3 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Aroclor-1016 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 2. Aroclor-1221 | U | | µg/kg | 110 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 3. Aroclor-1232 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 4. Aroclor-1242 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 5. Aroclor-1248 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 6. Aroclor-1254 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 7. Aroclor-1260 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| ‡ 8. Aroclor-1262 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| ‡ 9. Aroclor-1268 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |

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| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-3 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 3 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 27 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-3 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 3 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 54 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 2. Acenaphthylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 3. Anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 4. Benzo(a)anthracene (SIM) | 1300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 5. Benzo(a)pyrene (SIM) | 1300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 6. Benzo(b)fluoranthene (SIM) | 1900 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

| | | | |
|---|--|---|---|
| 1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail | Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601 | T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368 | F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584 |
|---|--|---|---|

| | | | | | |
|------------------------|---|---------------------|--------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-3 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 3 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID:** 69779-003 **Matrix:** Soil/Solid
Description: AKT-3 (1-3)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|-------------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Benzo(k)fluoranthene (SIM) | 650 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 9. Chrysene (SIM) | 1300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 11. Fluoranthene (SIM) | 2600 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 12. Fluorene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | 440 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 15. Phenanthrene (SIM) | 990 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 16. Pyrene (SIM) | 2100 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

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Cadillac, MI 49601

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F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

| | | | | | |
|---|---|---------------------|------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT MS | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 4 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-004 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|---------------------|-----------|--------------------|----------|-------|
| | | | | | | Description: AKT MS | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 9.1 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: | 69779-004 | Matrix: Soil/Solid | | |
|---|--------|-------|-------|-----------------|----------|---------------------|-----------|--------------------|----------|-------|
| | | | | | | Description: AKT MS | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 17000 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 100000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 10000 | µg/kg | | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 28000 | µg/kg | | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 35000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 110000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 10000 | µg/kg | | 200 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | 9700 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 95000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: | 69779-004 | Matrix: Soil/Solid | | |
|------------------------------|--------|-------|-------|-----------------|----------|---------------------|-----------|--------------------|----------|-------|
| | | | | | | Description: AKT MS | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | 300 | µg/kg | | 50 | 8.5 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-004A | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|---------------------|------------|--------------------|----------|-------|
| | | | | | | Description: AKT MS | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | 5600 | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | 5900 | µg/kg | | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | 6400 | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | 6900 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | 6100 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | 6300 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | 6500 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | 6400 | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | 5900 | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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F: (231) 775-8584

| | | | | | |
|------------------------|---|---------------------|-------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT MS | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 4 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 69779-004A** **Matrix: Soil/Solid**
Description: AKT MS

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|-------------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 10. n-Butylbenzene | 7500 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | 7400 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | 7000 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | 6100 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | 6700 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | 6600 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | 5800 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | 6500 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | 5700 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | 6800 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | 6500 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | 6200 | | µg/kg | 28 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | 6200 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | 6200 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | 6200 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | 6100 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | 4900 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | 6000 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | 6500 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | 6500 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | 6700 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | 6500 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | 6600 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | 6800 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | 6800 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | 7000 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | 6400 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | 6500 | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | 7300 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | 6100 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | 6700 | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | 6300 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | 6600 | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | 6800 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | 7400 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | 7000 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | 6400 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT MS | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 4 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-004A | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT MS | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 47. Tetrachloroethene | 6600 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | 6500 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | 6800 | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | 6400 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | 6600 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | 7000 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | 6000 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | 6400 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 55. 1,2,3-Trimethylbenzene | 6500 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | 7200 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | 7100 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | 5900 | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | 15000 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | 7200 | | µg/kg | 55 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | 22000 | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: 69779-004 | | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|-----------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT MS | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | 4000 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 2. Acenaphthylene | 4100 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 3. Anthracene | 3800 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 4. Benzo(a)anthracene | 4700 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 5. Benzo(a)pyrene | 4500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 6. Benzo(b)fluoranthene | 4900 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 7. Benzo(ghi)perylene | 4100 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 8. Benzo(k)fluoranthene | 4200 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 9. Chrysene | 5000 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 10. Dibenzo(a,h)anthracene | 4400 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 11. Fluoranthene | 4800 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 12. Fluorene | 4000 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | 4500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 14. 2-Methylnaphthalene | 3800 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 15. Phenanthrene | 4100 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |
| 16. Pyrene | 4900 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S115I19A | RDK |

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| | | | | | |
|---|---|---------------------|------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT MSD | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 5 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-005 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT MSD | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 12 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: | 69779-005 | Matrix: Soil/Solid | | |
|---|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT MSD | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 17000 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 98000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 10000 | µg/kg | | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 29000 | µg/kg | | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 36000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 110000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 9800 | µg/kg | | 200 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | 9400 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 99000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: | 69779-005 | Matrix: Soil/Solid | | |
|------------------------------|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT MSD | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | 440 | µg/kg | | 50 | 8.5 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-005A | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------|------------|--------------------|----------|-------|
| | | | | | | Description: | | AKT MSD | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | 5900 | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | 6200 | µg/kg | | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | 6700 | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | 7300 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | 6600 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | 6700 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | 6800 | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | 6700 | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | 6200 | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|------------------------|---|---------------------|-------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT MSD | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 5 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|-------------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 10. n-Butylbenzene | 7900 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | 7700 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | 7300 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | 6300 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | 7000 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | 6900 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | 6100 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | 7100 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | 6100 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | 7100 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | 6800 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | 6400 | | µg/kg | 29 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | 6500 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | 6500 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | 6500 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | 6400 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | 5200 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | 6300 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | 6900 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | 6800 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | 7100 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | 6800 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | 7000 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | 7300 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | 7200 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | 7200 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | 6700 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | 6700 | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | 7500 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | 6500 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | 6900 | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | 6800 | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | 6800 | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | 7200 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | 7700 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | 7300 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | 6700 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT MSD | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 5 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 10:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-005A | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT MSD | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 47. Tetrachloroethene | 6800 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | 6900 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | 7100 | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | 6700 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | 6900 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | 7300 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | 6400 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | 6500 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 55. 1,2,3-Trimethylbenzene | 6800 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | 7500 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | 7400 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | 6200 | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | 15000 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | 7400 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | 22000 | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: 69779-005 | | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|-----------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT MSD | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | 4400 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | 4600 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | 4300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | 5300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | 5200 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | 5500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | 4200 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | 5100 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | 6000 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | 4600 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | 5400 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | 4300 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | 4800 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | 3900 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | 4700 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | 5500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

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| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-4 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 6 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 11:20 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-006 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-4 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 14 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: | 69779-006 | Matrix: Soil/Solid | | |
|---|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-4 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 6000 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 59000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 310 | µg/kg | | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 14000 | µg/kg | | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 20000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 160000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 390 | µg/kg | | 200 | 10 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | 370 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 86000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: | 69779-006 | Matrix: Soil/Solid | | |
|------------------------------|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-4 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | 71 | µg/kg | | 50 | 8.8 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-006A | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------|------------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-4 (1-3) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | µg/kg | | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|--|---|---------------------|--------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-4 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 6 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 11:20 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 29 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-4 (1-3) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 6 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 11:20 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 58 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

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|---|---|---------------------|---------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-5 (0.5-1) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 7 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 11:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-007 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-5 (0.5-1) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 12 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: | 69779-007 | Matrix: Soil/Solid | | |
|---|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-5 (0.5-1) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Arsenic | 7600 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 2. Barium | 130000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 3. Cadmium | 700 | µg/kg | | 50 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 4. Chromium | 31000 | µg/kg | | 500 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 5. Copper | 39000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 6. Lead | 220000 | µg/kg | | 1000 | 40 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 7. Selenium | 680 | µg/kg | | 200 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 8. Silver | 380 | µg/kg | | 100 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |
| 9. Zinc | 150000 | µg/kg | | 1000 | 20 | 09/23/15 | PT15I23A | 09/23/15 | T415I23A | JWS |

| Mercury by CVAAS (EPA 7471B) | | | | | | Aliquot ID: | 69779-007 | Matrix: Soil/Solid | | |
|------------------------------|--------|-------|-------|-----------------|----------|--------------|-----------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-5 (0.5-1) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Mercury | 150 | µg/kg | | 50 | 9.7 | 09/24/15 | PM15I24A | 09/24/15 | M615I24A | JWS |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-007A | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------|------------|--------------------|----------|-------|
| | | | | | | Description: | | AKT-5 (0.5-1) | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | µg/kg | | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|---------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-5 (0.5-1) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 7 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 11:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 28 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|---------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-5 (0.5-1) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 7 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 11:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-007A | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|----------------------------|------------|--------------------|----------|-------|
| | | | | | | Description: AKT-5 (0.5-1) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | 220 | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | 120 | | µg/kg | 110 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | 270 | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | 180 | | µg/kg | 57 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | 450 | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: | 69779-007 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|----------------------------|-----------|--------------------|----------|-------|
| | | | | | | Description: AKT-5 (0.5-1) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 9. Chrysene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 11. Fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | 880 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 15. Phenanthrene | 600 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 16. Pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |

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F: (231) 775-8584

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-6 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 8 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 14:00 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-008 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------------------|-----------|--------------------|----------|-------|
| | | | | | | Description: AKT-6 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 17 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-008A | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------------------|------------|--------------------|----------|-------|
| | | | | | | Description: AKT-6 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | µg/kg | | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | µg/kg | | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | |
|---|--|---|---|
| 1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail | Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601 | T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368 | F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584 |
|---|--|---|---|

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-6 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 8 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 14:00 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|------------------------|--------------------|---|-------|-------------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1914 Holloway Drive | Holt, MI 48842 | | | T: (517) 699-0345 | | | | | | |
| 11766 E. Grand River | Brighton, MI 48116 | | | T: (810) 220-3300 | | | | | | |
| 8660 S. Mackinaw Trail | Cadillac, MI 49601 | | | T: (231) 775-8368 | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-6 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 8 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 14:00 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 2. Acenaphthylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 3. Anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 4. Benzo(a)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 5. Benzo(a)pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 9. Chrysene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 11. Fluoranthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 12. Fluorene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 15. Phenanthrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 16. Pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-7 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 9 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-009 | | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-7 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 20 | | % | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-009 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-7 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 1200 | | µg/kg | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 18000 | F | µg/kg | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 430000 | | µg/kg | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) | | | | | | Aliquot ID: 69779-009 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-7 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Aroclor-1016 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 2. Aroclor-1221 | U | | µg/kg | 120 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 3. Aroclor-1232 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 4. Aroclor-1242 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 5. Aroclor-1248 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 6. Aroclor-1254 | U | | µg/kg | 110 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| 7. Aroclor-1260 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| † 8. Aroclor-1262 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |
| † 9. Aroclor-1268 | U | | µg/kg | 100 | 5.0 | 09/18/15 | PS15I18E | 09/21/15 | SB15I21A | BDA |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-009A | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|--------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-7 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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F: (231) 775-8584

| | | | | | |
|------------------------|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-7 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 9 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |

| | | | | | |
|------------------|--|--|--|--|--|
| Sample Comments: | Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | |
| Definitions: | Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 31 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-7 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 9 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-009A | Matrix: Soil/Solid | | | |
|--|--------|---|-------|-----------------|----------|--------------|-------------|--------------------|----------|----------|----------|
| | | | | | | Description: | AKT-7 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | P. Date | P. Batch | A. Date | A. Batch | Analysis |
| 45.1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 46.1,1,2,2-Tetrachloroethane | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 49.1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 50.1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 51.1,1,2-Trichloroethane | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 54.1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| † 55.1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 56.1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 57.1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 59.m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| 60.o-Xylene | U | | µg/kg | 62 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |
| ‡ 61.Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK | |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: | 69779-009 | Matrix: Soil/Solid | | | |
|---|--------|---|-------|-----------------|----------|--------------|-------------|--------------------|----------|----------|----------|
| | | | | | | Description: | AKT-7 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | P. Date | P. Batch | A. Date | A. Batch | Analysis |
| 1. Acenaphthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 2. Acenaphthylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 3. Anthracene (SIM) | 500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 4. Benzo(a)anthracene (SIM) | 1000 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 5. Benzo(a)pyrene (SIM) | 960 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 6. Benzo(b)fluoranthene (SIM) | 1600 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 8. Benzo(k)fluoranthene (SIM) | 550 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 9. Chrysene (SIM) | 1000 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 11. Fluoranthene (SIM) | 2900 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 12. Fluorene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |
| 14.2-Methylnaphthalene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK | |

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|---|--|---|---|
| 1914 Holloway Drive 11766 E. Grand River 8660 S. Mackinaw Trail | Holt, MI 48842 Brighton, MI 48116 Cadillac, MI 49601 | T: (517) 699-0345 T: (810) 220-3300 T: (231) 775-8368 | F: (517) 699-0388 F: (810) 220-3311 F: (231) 775-8584 |
|---|--|---|---|

| | | | | | |
|------------------------|---|---------------------|--------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-7 (2-4) | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 9 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID:** 69779-009 **Matrix:** Soil/Solid
Description: AKT-7 (2-4)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|------------------------|-------------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 15. Phenanthrene (SIM) | 2100 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 16. Pyrene (SIM) | 1900 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT Dup Soil | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 10 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-010 | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|---------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT Dup Soil | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 17 | | % | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| <hr/> | | | | | | | | | | |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-010 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT Dup Soil | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 1200 | | µg/kg | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 18000 | | µg/kg | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 340000 | | µg/kg | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| <hr/> | | | | | | | | | | |
| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-010A | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT Dup Soil | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|------------------------|---|---------------------|---------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT Dup Soil | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 10 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT Dup Soil | Chain of Custody: | 134319 |
| Client Project Name: | 10279F-2-20 | Sample No: | 10 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:10 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-010A | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|--------------|--------------|--------------------|----------|-------|
| | | | | | | Description: | AKT Dup Soil | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: | 69779-010 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------|--------------|--------------------|----------|-------|
| | | | | | | Description: | AKT Dup Soil | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | 740 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | 620 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | 930 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | 760 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | 1800 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | 1400 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | 1500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

| | | | | | |
|---|---|---------------------|---------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-8 (0.5-2) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 11 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: | 69779-011 | Matrix: Soil/Solid | | | |
|---|--------|---|-------|-----------------|----------|--------------|---------------|--------------------|----------|----------|----------|
| | | | | | | Description: | AKT-8 (0.5-2) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | P. Date | P. Batch | A. Date | A. Batch | Analysis |
| † 1. Percent Moisture (Water Content) | 20 | % | | 0.1 | 1.0 | | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |

| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: | 69779-011 | Matrix: Soil/Solid | | | |
|---|--------|-------|-------|-----------------|----------|--------------|---------------|--------------------|----------|----------|----------|
| | | | | | | Description: | AKT-8 (0.5-2) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | P. Date | P. Batch | A. Date | A. Batch | Analysis |
| 1. Cadmium | U | µg/kg | | 50 | 20 | | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 23000 | µg/kg | | 500 | 20 | | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 22000 | µg/kg | | 1000 | 20 | | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |

| Polychlorinated Biphenyls (PCBs) (EPA 3546/EPA 8082A) | | | | | | Aliquot ID: | 69779-011 | Matrix: Soil/Solid | | | |
|---|--------|-------|-------|-----------------|----------|--------------|---------------|--------------------|----------|----------|----------|
| | | | | | | Description: | AKT-8 (0.5-2) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | P. Date | P. Batch | A. Date | A. Batch | Analysis |
| 1. Aroclor-1016 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 2. Aroclor-1221 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 3. Aroclor-1232 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 4. Aroclor-1242 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 5. Aroclor-1248 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 6. Aroclor-1254 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| 7. Aroclor-1260 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| † 8. Aroclor-1262 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |
| † 9. Aroclor-1268 | U | µg/kg | | 100 | 5.0 | | 09/18/15 | PS15I18E | 09/19/15 | SF15I19B | BDA |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-011A | Matrix: Soil/Solid | | | |
|--|--------|-------|-------|-----------------|----------|--------------|---------------|--------------------|----------|----------|----------|
| | | | | | | Description: | AKT-8 (0.5-2) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | P. Date | P. Batch | A. Date | A. Batch | Analysis |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | µg/kg | | 130 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-8 (0.5-2) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 11 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:30 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 69779-011A** **Matrix: Soil/Solid**
Description: AKT-8 (0.5-2)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 31 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 130 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|---------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-8 (0.5-2) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 11 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 130 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 130 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 130 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 63 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 2. Acenaphthylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 3. Anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 4. Benzo(a)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 5. Benzo(a)pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 9. Chrysene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 11. Fluoranthene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 12. Fluorene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

| | | | |
|---|--|---|---|
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|---|--|---|---|

| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-8 (0.5-2) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 11 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:30 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) **Aliquot ID:** 69779-011 **Matrix:** Soil/Solid
Description: AKT-8 (0.5-2)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 15. Phenanthrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |
| 16. Pyrene (SIM) | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S515I18B | RDK |

| | | | | | |
|---|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-9 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 12 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-012 | | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|--------------------------|--------------------|--------------------|----------|-------|
| | | | | | | Description: AKT-9 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 16 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-012 | Matrix: Soil/Solid | | | |
| | | | | | | Description: AKT-9 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 170 | µg/kg | | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 22000 | µg/kg | | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 13000 | µg/kg | | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-012A | Matrix: Soil/Solid | | | |
| | | | | | | Description: AKT-9 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | µg/kg | | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | µg/kg | | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|------------------------|---|---------------------|-------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-9 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 12 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:45 |

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) **Aliquot ID: 69779-012A** **Matrix: Soil/Solid**
Description: AKT-9 (2-4)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|--------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-9 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 12 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 09:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-012A | Matrix: Soil/Solid | | |
|---|---------------|----------|--------------|------------------------|-----------------|---------------------------------|-------------------|---------------------------|----------|-------|
| | | | | | | Description: AKT-9 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: | 69779-012 | Matrix: Soil/Solid | | |
|--|---------------|----------|--------------|------------------------|-----------------|---------------------------------|------------------|---------------------------|----------|-------|
| | | | | | | Description: AKT-9 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-10 (4-6) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 13 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-013 | | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|---------------------------|--------------------|--------------------|----------|-------|
| | | | | | | Description: AKT-10 (4-6) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 16 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-013 | Matrix: Soil/Solid | | | |
| | | | | | | Description: AKT-10 (4-6) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 110 | µg/kg | | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 21000 | µg/kg | | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 200000 | µg/kg | | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-013A | Matrix: Soil/Solid | | | |
| | | | | | | Description: AKT-10 (4-6) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | µg/kg | | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | µg/kg | | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | µg/kg | | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-10 (4-6) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 13 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|---------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-10 (4-6) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 13 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-013A | Matrix: Soil/Solid | | | |
|---|---------------|----------|--------------|------------------------|-----------------|----------------------------------|---------------------------|-----------------|----------|-------|
| | | | | | | Description: AKT-10 (4-6) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: 69779-013 | Matrix: Soil/Solid | | | |
|--|---------------|----------|--------------|------------------------|-----------------|----------------------------------|---------------------------|-----------------|----------|-------|
| | | | | | | Description: AKT-10 (4-6) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 9. Chrysene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 11. Fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 15. Phenanthrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |
| 16. Pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/19/15 | S315I18A | RDK |

| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Equipment Blank Soil | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 14 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 12:30 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 69779-014A** **Matrix: Ground Water**
Description: Equipment Blank Soil

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|--------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | U | | µg/L | 1.0 | 10 | 09/23/15 | PT15I23D | 09/23/15 | T415I23A | JWS |
| 2. Chromium | U | | µg/L | 10 | 10 | 09/23/15 | PT15I23D | 09/23/15 | T415I23A | JWS |
| 3. Lead | U | | µg/L | 3.0 | 10 | 09/23/15 | PT15I23D | 09/23/15 | T415I23A | JWS |

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-014B** **Matrix: Ground Water**
Description: Equipment Blank Soil

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 2. Acrylonitrile | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 3. Benzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 4. Bromobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 5. Bromochloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 6. Bromodichloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 7. Bromoform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 8. Bromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 9. 2-Butanone | U | | µg/L | 25 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 10. n-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 11. sec-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 12. tert-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 13. Carbon Disulfide | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 14. Carbon Tetrachloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 15. Chlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 16. Chloroethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 17. Chloroform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 18. Chloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 19. 2-Chlorotoluene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 20. Dibromochloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 22. Dibromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 23. 1,2-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 24. 1,3-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 25. 1,4-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 26. Dichlorodifluoromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 27. 1,1-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 28. 1,2-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Equipment Blank Soil | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 14 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 12:30 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-014B** **Matrix: Ground Water**
Description: Equipment Blank Soil

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 29. 1,1-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 30. cis-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 31. trans-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 32. 1,2-Dichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 33. cis-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 34. trans-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 35. Ethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 36. Ethylene Dibromide | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 37. 2-Hexanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 38. Isopropylbenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 39. Methylene Chloride | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 40. 4-Methyl-2-pentanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 41. MTBE | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 42. Naphthalene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 43. n-Propylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 44. Styrene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 47. Tetrachloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 48. Toluene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 49. 1,2,4-Trichlorobenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 50. 1,1,1-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 51. 1,1,2-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 52. Trichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 53. Trichlorofluoromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 54. 1,2,3-Trichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 56. 1,2,4-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 57. 1,3,5-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 58. Vinyl Chloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 59. m&p-Xylene | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 60. o-Xylene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 61. Xylenes | U | | µg/L | 3.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|-----------------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Equipment Blank Soil | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 14 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 12:30 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID: 69779-014** **Matrix: Ground Water**
Description: Equipment Blank Soil

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 2. Acenaphthylene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 3. Anthracene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 4. Benzo(a)anthracene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 5. Benzo(a)pyrene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 9. Chrysene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 11. Fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 12. Fluorene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 15. Phenanthrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 16. Pyrene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-11 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 15 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:40 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-015 | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|---------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-11 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 26 | | % | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| <hr/> | | | | | | | | | | |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-015 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-11 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 510 | | µg/kg | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 17000 | | µg/kg | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 160000 | | µg/kg | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| <hr/> | | | | | | | | | | |
| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-015A | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-11 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | | µg/kg | 140 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 34 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-11 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 15 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:40 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 140 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 340 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 140 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 140 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 140 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|---------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-11 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 15 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:40 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-015A | Matrix: Soil/Solid | | | |
|---|---------------|----------|--------------|------------------------|-----------------|----------------------------------|---------------------------|-----------------|----------|-------|
| | | | | | | Description: AKT-11 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 68 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: 69779-015 | Matrix: Soil/Solid | | | |
|--|---------------|----------|--------------|------------------------|-----------------|----------------------------------|---------------------------|-----------------|----------|-------|
| | | | | | | Description: AKT-11 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | 400 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | 360 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | 500 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | 420 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | 870 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | 560 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | 770 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

| | | | | | |
|---|---|---------------------|-------------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Field Bottle Blank Soil | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 16 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:40 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 25 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|-------------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Field Bottle Blank Soil | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 16 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 12:40 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 40. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. 1,1,2-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. Trichlorofluoromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 55. 1,2,3-Trichloropropane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 56. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,2,4-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 61. o-Xylene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 62. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-12 (1-3) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 17 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 13:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-017 | | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|---------------------------|----------|--------------------|----------|-------|
| | | | | | | Description: AKT-12 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 17 | | % | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| <hr/> | | | | | | | | | | |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-017 | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-12 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 300 | | µg/kg | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 16000 | | µg/kg | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 12000 | | µg/kg | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| <hr/> | | | | | | | | | | |
| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-017A | | Matrix: Soil/Solid | | |
| | | | | | | Description: AKT-12 (1-3) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-12 (1-3) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 17 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 13:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-12 (1-3) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 17 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 13:30 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: | 69779-017A | Matrix: Soil/Solid | | |
|--|--------|---|-------|-----------------|----------|--------------|--------------|--------------------|----------|-------|
| | | | | | | Description: | AKT-12 (1-3) | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 60 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: | 69779-017 | Matrix: Soil/Solid | | |
|---|--------|---|-------|-----------------|----------|--------------|--------------|--------------------|----------|-------|
| | | | | | | Description: | AKT-12 (1-3) | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-13 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 18 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 13:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Dry Weight Determination (ASTM D 2974-87) | | | | | | Aliquot ID: 69779-018 | | Matrix: Soil/Solid | | |
|--|--------|-------|-------|-----------------|----------|---------------------------|--------------------|--------------------|----------|-------|
| | | | | | | Description: AKT-13 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| † 1. Percent Moisture (Water Content) | 16 | % | | 0.1 | 1.0 | 09/21/15 | MC150921 | 09/22/15 | MC150921 | BMG |
| Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | Aliquot ID: 69779-018 | Matrix: Soil/Solid | | | |
| | | | | | | Description: AKT-13 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | 240 | µg/kg | | 50 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 2. Chromium | 10000 | µg/kg | | 500 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| 3. Lead | 30000 | µg/kg | | 1000 | 20 | 09/24/15 | PT15I24A | 09/24/15 | T415I24A | JLH |
| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-018A | Matrix: Soil/Solid | | | |
| | | | | | | Description: AKT-13 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | µg/kg | | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 2. Acrylonitrile | U | µg/kg | | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | µg/kg | | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | µg/kg | | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | µg/kg | | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | µg/kg | | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | µg/kg | | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | µg/kg | | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | µg/kg | | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | µg/kg | | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 21. 1,2-Dibromo-3-chloropropane (SIM) | U | µg/kg | | 30 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| | | | | | |
|---|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-13 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 18 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 13:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 40. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,2-Trichloroethane | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichlorofluoromethane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. 1,2,3-Trichloropropane | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 56. 1,2,4-Trimethylbenzene | U | | µg/kg | 120 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|---------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-13 (2-4) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 18 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | 13:45 |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | Aliquot ID: 69779-018A | Matrix: Soil/Solid | | | |
|---|---------------|----------|--------------|------------------------|-----------------|----------------------------------|---------------------------|-----------------|----------|-------|
| | | | | | | Description: AKT-13 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 59. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. o-Xylene | U | | µg/kg | 59 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 61. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

| Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3546/EPA 8270C) | | | | | | Aliquot ID: 69779-018 | Matrix: Soil/Solid | | | |
|--|---------------|----------|--------------|------------------------|-----------------|----------------------------------|---------------------------|-----------------|----------|-------|
| | | | | | | Description: AKT-13 (2-4) | | | | |
| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 2. Acenaphthylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 3. Anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 4. Benzo(a)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 5. Benzo(a)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 6. Benzo(b)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 7. Benzo(ghi)perylene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 8. Benzo(k)fluoranthene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 9. Chrysene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 10. Dibenzo(a,h)anthracene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 11. Fluoranthene | 410 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 12. Fluorene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 13. Indeno(1,2,3-cd)pyrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 14. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 15. Phenanthrene | U | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |
| 16. Pyrene | 400 | | µg/kg | 330 | 1.0 | 09/18/15 | PS15I18E | 09/18/15 | S315I18A | RDK |

| | | | | | |
|------------------------|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-13 (w) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 19 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-019B** **Matrix: Ground Water**
Description: AKT-13 (w)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 2. Acrylonitrile | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 3. Benzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 4. Bromobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 5. Bromochloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 6. Bromodichloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 7. Bromoform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 8. Bromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 9. 2-Butanone | U | | µg/L | 25 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 10. n-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 11. sec-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 12. tert-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 13. Carbon Disulfide | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 14. Carbon Tetrachloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 15. Chlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 16. Chloroethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 17. Chloroform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 18. Chloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 19. 2-Chlorotoluene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 20. Dibromochloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 22. Dibromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 23. 1,2-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 24. 1,3-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 25. 1,4-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 26. Dichlorodifluoromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 27. 1,1-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 28. 1,2-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 29. 1,1-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 30. cis-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 31. trans-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 32. 1,2-Dichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 33. cis-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 34. trans-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 35. Ethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 36. Ethylene Dibromide | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 37. 2-Hexanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-13 (w) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 19 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-019B** **Matrix: Ground Water**
Description: AKT-13 (w)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 39. Methylene Chloride | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 40. 4-Methyl-2-pentanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 41. MTBE | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 42. Naphthalene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 43. n-Propylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 44. Styrene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 47. Tetrachloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 48. Toluene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 49. 1,2,4-Trichlorobenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 50. 1,1,1-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 51. 1,1,2-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 52. Trichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 53. Trichlorofluoromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 54. 1,2,3-Trichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 56. 1,2,4-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 57. 1,3,5-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 58. Vinyl Chloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 59. m&p-Xylene | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 60. o-Xylene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 61. Xylenes | U | | µg/L | 3.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID: 69779-019** **Matrix: Ground Water**
Description: AKT-13 (w)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 2. Acenaphthylene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 3. Anthracene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 4. Benzo(a)anthracene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 5. Benzo(a)pyrene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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F: (231) 775-8584

| | | | | | |
|------------------------|---|---------------------|---------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT-13 (w) | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 19 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID:** 69779-019 **Matrix:** Ground Water
Description: AKT-13 (w)

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 9. Chrysene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 11. Fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 12. Fluorene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 15. Phenanthrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 16. Pyrene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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F: (231) 775-8584

| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT Dup Water | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 20 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-020B** **Matrix: Ground Water**
Description: AKT Dup Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 2. Acrylonitrile | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 3. Benzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 4. Bromobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 5. Bromochloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 6. Bromodichloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 7. Bromoform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 8. Bromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 9. 2-Butanone | U | | µg/L | 25 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 10. n-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 11. sec-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 12. tert-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 13. Carbon Disulfide | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 14. Carbon Tetrachloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 15. Chlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 16. Chloroethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 17. Chloroform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 18. Chloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 19. 2-Chlorotoluene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 20. Dibromochloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 22. Dibromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 23. 1,2-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 24. 1,3-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 25. 1,4-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 26. Dichlorodifluoromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 27. 1,1-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 28. 1,2-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 29. 1,1-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 30. cis-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 31. trans-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 32. 1,2-Dichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 33. cis-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 34. trans-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 35. Ethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 36. Ethylene Dibromide | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 37. 2-Hexanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT Dup Water | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 20 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-020B** **Matrix: Ground Water**
Description: AKT Dup Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 39. Methylene Chloride | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 40. 4-Methyl-2-pentanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 41. MTBE | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 42. Naphthalene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 43. n-Propylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 44. Styrene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 47. Tetrachloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 48. Toluene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 49. 1,2,4-Trichlorobenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 50. 1,1,1-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 51. 1,1,2-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 52. Trichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 53. Trichlorofluoromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 54. 1,2,3-Trichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 56. 1,2,4-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 57. 1,3,5-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 58. Vinyl Chloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 59. m&p-Xylene | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 60. o-Xylene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 61. Xylenes | U | | µg/L | 3.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID: 69779-020** **Matrix: Ground Water**
Description: AKT Dup Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 2. Acenaphthylene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 3. Anthracene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 4. Benzo(a)anthracene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 5. Benzo(a)pyrene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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| | | | | | |
|------------------------|---|---------------------|----------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | AKT Dup Water | Chain of Custody: | 130579 |
| Client Project Name: | 10279F-2-20 | Sample No: | 20 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID: 69779-020** **Matrix: Ground Water**
Description: AKT Dup Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 9. Chrysene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 11. Fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 12. Fluorene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 15. Phenanthrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 16. Pyrene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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| | | | | | |
|------------------------|---|---------------------|--------------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Field Bottle Blank Water | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 21 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-021B** **Matrix: Ground Water**
Description: Field Bottle Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 2. Acrylonitrile | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 3. Benzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 4. Bromobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 5. Bromochloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 6. Bromodichloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 7. Bromoform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 8. Bromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 9. 2-Butanone | U | | µg/L | 25 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 10. n-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 11. sec-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 12. tert-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 13. Carbon Disulfide | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 14. Carbon Tetrachloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 15. Chlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 16. Chloroethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 17. Chloroform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 18. Chloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 19. 2-Chlorotoluene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 20. Dibromochloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 22. Dibromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 23. 1,2-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 24. 1,3-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 25. 1,4-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 26. Dichlorodifluoromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 27. 1,1-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 28. 1,2-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 29. 1,1-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 30. cis-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 31. trans-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 32. 1,2-Dichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 33. cis-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 34. trans-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 35. Ethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 36. Ethylene Dibromide | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 37. 2-Hexanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|--------------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Field Bottle Blank Water | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 21 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-021B** **Matrix: Ground Water**
Description: Field Bottle Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 39. Methylene Chloride | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 40. 4-Methyl-2-pentanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 41. MTBE | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 42. Naphthalene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 43. n-Propylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 44. Styrene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 47. Tetrachloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 48. Toluene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 49. 1,2,4-Trichlorobenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 50. 1,1,1-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 51. 1,1,2-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 52. Trichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 53. Trichlorofluoromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 54. 1,2,3-Trichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 56. 1,2,4-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 57. 1,3,5-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 58. Vinyl Chloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 59. m&p-Xylene | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 60. o-Xylene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 61. Xylenes | U | | µg/L | 3.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID: 69779-021** **Matrix: Ground Water**
Description: Field Bottle Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 2. Acenaphthylene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 3. Anthracene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 4. Benzo(a)anthracene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 5. Benzo(a)pyrene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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| | | | | | |
|------------------------|---|---------------------|---------------------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Field Bottle Blank Water | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 21 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID:** 69779-021 **Matrix:** Ground Water
Description: Field Bottle Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 9. Chrysene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 11. Fluoranthene (SIM) | U | | µg/L | 1.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 12. Fluorene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 15. Phenanthrene (SIM) | U | | µg/L | 2.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 16. Pyrene (SIM) | U | | µg/L | 5.0 | 1.0 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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| | | | | | |
|------------------------|---|---------------------|-----------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Equipment Blank Water | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 22 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Trace Elements by ICP/MS, Total Recoverable (EPA 3005A-M/EPA 6020A) **Aliquot ID: 69779-022A** **Matrix: Ground Water**
Description: Equipment Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|--------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Cadmium | U | | µg/L | 1.0 | 10 | 09/23/15 | PT15I23D | 09/23/15 | T415I23A | JWS |
| 2. Chromium | U | | µg/L | 10 | 10 | 09/23/15 | PT15I23D | 09/23/15 | T415I23A | JWS |
| 3. Lead | U | | µg/L | 3.0 | 10 | 09/23/15 | PT15I23D | 09/23/15 | T415I23A | JWS |

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-022B** **Matrix: Ground Water**
Description: Equipment Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 2. Acrylonitrile | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 3. Benzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 4. Bromobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 5. Bromochloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 6. Bromodichloromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 7. Bromoform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 8. Bromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 9. 2-Butanone | U | | µg/L | 25 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 10. n-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 11. sec-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 12. tert-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 13. Carbon Disulfide | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 14. Carbon Tetrachloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 15. Chlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 16. Chloroethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 17. Chloroform | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 18. Chloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 19. 2-Chlorotoluene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 20. Dibromochloromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 22. Dibromomethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 23. 1,2-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 24. 1,3-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 25. 1,4-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 26. Dichlorodifluoromethane | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 27. 1,1-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 28. 1,2-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|-----------------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Equipment Blank Water | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 22 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-022B** **Matrix: Ground Water**
Description: Equipment Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 29. 1,1-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 30. cis-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 31. trans-1,2-Dichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 32. 1,2-Dichloropropane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 33. cis-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 34. trans-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 35. Ethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 36. Ethylene Dibromide | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 37. 2-Hexanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 38. Isopropylbenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 39. Methylene Chloride | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 40. 4-Methyl-2-pentanone | U | | µg/L | 50 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 41. MTBE | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 42. Naphthalene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 43. n-Propylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 44. Styrene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 45. 1,1,1,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 46. 1,1,2,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 47. Tetrachloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 48. Toluene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 49. 1,2,4-Trichlorobenzene | U | | µg/L | 5.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 50. 1,1,1-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 51. 1,1,2-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 52. Trichloroethene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 53. Trichlorofluoromethane | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 54. 1,2,3-Trichloropropene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 55. 1,2,3-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 56. 1,2,4-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 57. 1,3,5-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 58. Vinyl Chloride | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 59. m&p-Xylene | U | | µg/L | 2.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| 60. o-Xylene | U | | µg/L | 1.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |
| † 61. Xylenes | U | | µg/L | 3.0 | 1.0 | 09/18/15 | VL15I18A | 09/18/15 | VL15I18A | CCD |

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| | | | | | |
|------------------------|---|---------------------|-------------------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Equipmenet Blank Water | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 22 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Ground Water | Collect Time: | 13:45 |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Polynuclear Aromatic Hydrocarbons (PNAs) (EPA 3510C/EPA 8270C) **Aliquot ID: 69779-022** **Matrix: Ground Water**
Description: Equipmenet Blank Water

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|----------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acenaphthene (SIM) | U | | µg/L | 5.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 2. Acenaphthylene (SIM) | U | | µg/L | 5.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 3. Anthracene (SIM) | U | | µg/L | 5.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 4. Benzo(a)anthracene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 5. Benzo(a)pyrene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 6. Benzo(b)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 7. Benzo(ghi)perylene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 8. Benzo(k)fluoranthene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 9. Chrysene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 10. Dibenzo(a,h)anthracene (SIM) | U | | µg/L | 2.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 11. Fluoranthene (SIM) | U | | µg/L | 1.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 12. Fluorene (SIM) | U | | µg/L | 5.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 13. Indeno(1,2,3-cd)pyrene (SIM) | U | | µg/L | 2.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 14. 2-Methylnaphthalene (SIM) | U | | µg/L | 5.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 15. Phenanthrene (SIM) | U | | µg/L | 2.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |
| 16. Pyrene (SIM) | U | | µg/L | 5.0 | 1.1 | 09/21/15 | PS15I21D | 09/21/15 | S515I21B | TKT |

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| | | | | | |
|------------------------|---|---------------------|--------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Trip Blank 1 | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 23 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Trip Blank | Collect Time: | NA |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-023** **Matrix: Trip Blank**
Description: Trip Blank 1

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/L | 50 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| ‡ 2. Acrylonitrile | U | | µg/L | 2.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 3. Benzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 4. Bromobenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 5. Bromochloromethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 6. Bromodichloromethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 7. Bromoform | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 8. Bromomethane | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 9. 2-Butanone | U | | µg/L | 25 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 10. n-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 11. sec-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 12. tert-Butylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 13. Carbon Disulfide | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 14. Carbon Tetrachloride | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 15. Chlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 16. Chloroethane | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 17. Chloroform | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 18. Chloromethane | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 19. 2-Chlorotoluene | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 20. Dibromochloromethane | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 22. Dibromomethane | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 23. 1,2-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 24. 1,3-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 25. 1,4-Dichlorobenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 26. Dichlorodifluoromethane | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 27. 1,1-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 28. 1,2-Dichloroethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 29. 1,1-Dichloroethylene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 30. cis-1,2-Dichloroethylene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 31. trans-1,2-Dichloroethylene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 32. 1,2-Dichloropropane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 33. cis-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 34. trans-1,3-Dichloropropene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 35. Ethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 36. Ethylene Dibromide | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 37. 2-Hexanone | U | | µg/L | 50 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |

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|------------------------|---|---------------------|---------------------|-------------------|-----------------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Trip Blank 1 | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 23 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Trip Blank | Collect Time: | NA |

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS (EPA 5030B/EPA 8260B) **Aliquot ID: 69779-023** **Matrix: Trip Blank**
Description: Trip Blank 1

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 39. Methylene Chloride | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| † 40. 2-Methylnaphthalene | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 41. 4-Methyl-2-pentanone | U | | µg/L | 50 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 42. MTBE | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 43. Naphthalene | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 44. n-Propylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 45. Styrene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 46. 1,1,1,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 47. 1,1,2,2-Tetrachloroethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 48. Tetrachloroethene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 49. Toluene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 50. 1,2,4-Trichlorobenzene | U | | µg/L | 5.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 51. 1,1,1-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 52. 1,1,2-Trichloroethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 53. Trichloroethene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 54. Trichlorofluoromethane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 55. 1,2,3-Trichloropropane | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| † 56. 1,2,3-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 57. 1,2,4-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 58. 1,3,5-Trimethylbenzene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 59. Vinyl Chloride | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 60. m&p-Xylene | U | | µg/L | 2.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| 61. o-Xylene | U | | µg/L | 1.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |
| † 62. Xylenes | U | | µg/L | 3.0 | 1.0 | 09/22/15 | VI15I22B | 09/23/15 | VI15I22B | CCD |

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| | | | | | |
|---|---|---------------------|----------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Methanol Blank | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 24 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | NA |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|---|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 1. Acetone | U | | µg/kg | 1000 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 2. Acrylonitrile | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 3. Benzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 4. Bromobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 5. Bromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 6. Bromodichloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 7. Bromoform | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 8. Bromomethane | U | | µg/kg | 200 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 9. 2-Butanone | U | | µg/kg | 750 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 10. n-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 11. sec-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 12. tert-Butylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 13. Carbon Disulfide | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 14. Carbon Tetrachloride | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 15. Chlorobenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 16. Chloroethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 17. Chloroform | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 18. Chloromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 19. 2-Chlorotoluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 20. Dibromochloromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| ‡ 21. 1,2-Dibromo-3-chloropropane (SIM) | U | | µg/kg | 25 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 22. Dibromomethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 23. 1,2-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 24. 1,3-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 25. 1,4-Dichlorobenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 26. Dichlorodifluoromethane | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 27. 1,1-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 28. 1,2-Dichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 29. 1,1-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 30. cis-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 31. trans-1,2-Dichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 32. 1,2-Dichloropropane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 33. cis-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 34. trans-1,3-Dichloropropene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 35. Ethylbenzene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 36. Ethylene Dibromide | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 37. 2-Hexanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

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| | | | | | |
|---|---|---------------------|----------------|-------------------|----------|
| Client Identification: | AKT Peerless Environ. Svcs, Inc. - Farm. Hills | Sample Description: | Methanol Blank | Chain of Custody: | 130580 |
| Client Project Name: | 10279F-2-20 | Sample No: | 24 | Collect Date: | 09/16/15 |
| Client Project No: | 10279F-2-20 | Sample Matrix: | Soil/Solid | Collect Time: | NA |
| Sample Comments: Soil results have been calculated and reported on a dry weight basis unless otherwise noted. | | | | | |
| Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis. | | | | | |

| Parameter(s) | Result | Q | Units | Reporting Limit | Dilution | Preparation | | Analysis | | |
|-------------------------------|--------|---|-------|-----------------|----------|-------------|----------|----------|----------|-------|
| | | | | | | P. Date | P. Batch | A. Date | A. Batch | Init. |
| 38. Isopropylbenzene | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 39. Methylene Chloride | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 40. 2-Methylnaphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 41. 4-Methyl-2-pentanone | U | | µg/kg | 2500 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 42. MTBE | U | | µg/kg | 250 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 43. Naphthalene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 44. n-Propylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 45. Styrene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 46. 1,1,1,2-Tetrachloroethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 47. 1,1,2,2-Tetrachloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 48. Tetrachloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 49. Toluene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 50. 1,2,4-Trichlorobenzene | U | | µg/kg | 330 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 51. 1,1,1-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 52. 1,1,2-Trichloroethane | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 53. Trichloroethene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 54. Trichlorofluoromethane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 55. 1,2,3-Trichloropropane | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 56. 1,2,3-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 57. 1,2,4-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 58. 1,3,5-Trimethylbenzene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 59. Vinyl Chloride | U | | µg/kg | 40 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 60. m&p-Xylene | U | | µg/kg | 100 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| 61. o-Xylene | U | | µg/kg | 50 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |
| † 62. Xylenes | U | | µg/kg | 150 | 1.0 | 09/18/15 | VJ15I18B | 09/19/15 | VJ15I18B | CRK |

Definitions/ Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- *: Value reported is outside QC limits

Exception Summary:

- F : Recovery from the spiked aliquot failed the expected range (matrix spike or matrix spike duplicate)



Accreditation Number(s):

T104704518-15-3 (TX)

Quality Control Report
Matrix Spike Summary
Laboratory Project Number: 69779

Order: 69779
Page: 1 of 4
Date: 09/25/15

Client Identification: AKT Peerless Environ. Svcs,
Inc. - Farm. Hills Client Project Name: 10279F-2-20 Client Project No: 10279F-2-20

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable

| Mercury by CVAAS (EPA 7471B) | | | | | | | Matrix: Soil/Solid | | | |
|------------------------------|-----------|--------------|-------------|------------|------------|---------------|--------------------|------------------|-------|---------|
| Parent Sample: | 69779-003 | Description: | AKT-3 (1-3) | Sample No: | 3 | Collect Date: | 09/16/15 | 10:30 | | |
| MS Sample ID: | 69779-004 | Description: | AKT MS | Sample No: | 4 | Collect Date: | 09/16/15 | 10:30 | | |
| MSD Sample ID: | 69779-005 | Description: | AKT MSD | Sample No: | 5 | Collect Date: | 09/16/15 | 10:30 | | |
| Parameter(s) | Result | Units | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | MS/MSD LCL - UCL | RPD % | RPD UCL |
| 1. Mercury | 37.8 | µg/kg(wet) | 170 | 273 | 390 | 138 * | 208 * | 70 - 130 | 40 * | 20 |

| Michigan 10 Elements by ICP/MS (EPA 0200.2-M/EPA 6020A) | | | | | | | Matrix: Soil/Solid | | | |
|---|-----------|--------------|-------------|------------|------------|---------------|--------------------|------------------|-------|---------|
| Parent Sample: | 69779-003 | Description: | AKT-3 (1-3) | Sample No: | 3 | Collect Date: | 09/16/15 | 10:30 | | |
| MS Sample ID: | 69779-004 | Description: | AKT MS | Sample No: | 4 | Collect Date: | 09/16/15 | 10:30 | | |
| MSD Sample ID: | 69779-005 | Description: | AKT MSD | Sample No: | 5 | Collect Date: | 09/16/15 | 10:30 | | |
| Parameter(s) | Result | Units | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | MS/MSD LCL - UCL | RPD % | RPD UCL |
| 1. Arsenic | 5,500 | µg/kg | 10,000 | 16,560 | 17,364 | 111 | 119 | 70 - 130 | 7 | 20 |
| 2. Barium | 22,085 | µg/kg | 50,000 | 101,327 | 98,495 | 158 * | 153 * | 70 - 130 | 3 | 20 |
| 3. Cadmium | 102 | µg/kg | 10,000 | 10,272 | 10,046 | 102 | 99 | 70 - 130 | 3 | 20 |
| 4. Chromium | 21,121 | µg/kg | 20,000 | 28,163 | 28,611 | 35 * | 37 * | 70 - 130 | 6 | 20 |
| 5. Copper | 14,093 | µg/kg | 20,000 | 35,189 | 36,417 | 105 | 112 | 70 - 130 | 6 | 20 |
| 6. Lead | 23,660 | µg/kg | 20,000 | 106,811 | 110,982 | 416 * | 437 * | 70 - 130 | 5 | 20 |
| 7. Selenium | 251 | µg/kg | 10,000 | 10,622 | 10,861 | 104 | 106 | 70 - 130 | 2 | 20 |
| 8. Silver | 55.3 | µg/kg | 10,000 | 9,722 | 9,400 | 97 | 93 | 70 - 130 | 4 | 20 |
| 9. Zinc | 30,606 | µg/kg | 50,000 | 97,233 | 101,769 | 133 * | 142 * | 70 - 130 | 7 | 20 |

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Client Identification: **AKT Peerless Environ. Svcs,
Inc. - Farm. Hills** Client Project Name: **10279F-2-20** Client Project No: **10279F-2-20**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | | Matrix: Soil/Solid | | | |
|---|--------|------------|-------------|-----------|------------|----------|---------------------------|------------------|-------|---------|
| Parameter(s) | Result | Units | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | MS/MSD LCL - UCL | RPD % | RPD UCL |
| 1. Acetone | <250 | µg/kg(wet) | 5,000 | 5,074 | 5,167 | 101 | 103 | 70 - 150 | 2 | 20 |
| 2. Acrylonitrile | <100 | µg/kg(wet) | 5,000 | 5,337 | 5,397 | 107 | 108 | 70 - 134 | 1 | 20 |
| 3. Benzene | <25.0 | µg/kg(wet) | 5,000 | 5,830 | 5,890 | 117 | 118 | 70 - 134 | 1 | 20 |
| 4. Bromobenzene | <50.0 | µg/kg(wet) | 5,000 | 6,281 | 6,445 | 126 | 129 | 70 - 134 | 2 | 20 |
| 5. Bromochloromethane | <50.0 | µg/kg(wet) | 5,000 | 5,539 | 5,812 | 111 | 116 | 70 - 134 | 4 | 20 |
| 6. Bromodichloromethane | <50.0 | µg/kg(wet) | 5,000 | 5,734 | 5,834 | 115 | 117 | 70 - 134 | 2 | 20 |
| 7. Bromoform | <50.0 | µg/kg(wet) | 5,000 | 5,946 | 5,947 | 119 | 119 | 70 - 134 | 0 | 20 |
| 8. Bromomethane | <100 | µg/kg(wet) | 5,000 | 5,787 | 5,835 | 116 | 117 | 70 - 134 | 1 | 20 |
| 9. 2-Butanone | <250 | µg/kg(wet) | 5,000 | 5,398 | 5,402 | 108 | 108 | 70 - 150 | 0 | 20 |
| 10. n-Butylbenzene | <25.0 | µg/kg(wet) | 5,000 | 6,846 | 6,905 | 137 * | 138 * | 70 - 134 | 1 | 20 |
| 11. sec-Butylbenzene | <50.0 | µg/kg(wet) | 5,000 | 6,711 | 6,745 | 134 | 135 * | 70 - 134 | 1 | 20 |
| 12. tert-Butylbenzene | <50.0 | µg/kg(wet) | 5,000 | 6,356 | 6,373 | 127 | 127 | 70 - 134 | 0 | 20 |
| 13. Carbon Disulfide | <25.0 | µg/kg(wet) | 5,000 | 5,513 | 5,518 | 110 | 110 | 70 - 134 | 0 | 20 |
| 14. Carbon Tetrachloride | <25.0 | µg/kg(wet) | 5,000 | 6,082 | 6,150 | 122 | 123 | 70 - 134 | 1 | 20 |
| 15. Chlorobenzene | <50.0 | µg/kg(wet) | 5,000 | 6,031 | 6,037 | 121 | 121 | 70 - 134 | 0 | 20 |
| 16. Chloroethane | <100 | µg/kg(wet) | 5,000 | 5,247 | 5,310 | 105 | 106 | 70 - 134 | 1 | 20 |
| 17. Chloroform | <25.0 | µg/kg(wet) | 5,000 | 5,931 | 6,200 | 119 | 124 | 75 - 134 | 4 | 20 |
| 18. Chloromethane | <50.0 | µg/kg(wet) | 5,000 | 5,165 | 5,337 | 103 | 107 | 70 - 134 | 4 | 20 |
| 19. 2-Chlorotoluene | <25.0 | µg/kg(wet) | 5,000 | 6,166 | 6,256 | 123 | 125 | 70 - 134 | 2 | 20 |
| 20. Dibromochloromethane | <25.0 | µg/kg(wet) | 5,000 | 5,887 | 5,955 | 118 | 119 | 70 - 134 | 1 | 20 |
| 21. 1,2-Dibromo-3-chloropropane (SIM) | <25.0 | µg/kg(wet) | 5,000 | 5,614 | 5,586 | 112 | 112 | 70 - 134 | 0 | 20 |
| 22. Dibromomethane | <25.0 | µg/kg(wet) | 5,000 | 5,637 | 5,699 | 113 | 114 | 70 - 134 | 1 | 20 |
| 23. 1,2-Dichlorobenzene | <25.0 | µg/kg(wet) | 5,000 | 5,609 | 5,697 | 112 | 114 | 70 - 134 | 2 | 20 |
| 24. 1,3-Dichlorobenzene | <25.0 | µg/kg(wet) | 5,000 | 5,664 | 5,739 | 113 | 115 | 70 - 134 | 2 | 20 |
| 25. 1,4-Dichlorobenzene | <50.0 | µg/kg(wet) | 5,000 | 5,550 | 5,605 | 111 | 112 | 70 - 134 | 1 | 20 |
| 26. Dichlorodifluoromethane | <25.0 | µg/kg(wet) | 5,000 | 4,495 | 4,533 | 90 | 91 | 70 - 134 | 1 | 20 |
| 27. 1,1-Dichloroethane | <25.0 | µg/kg(wet) | 5,000 | 5,436 | 5,569 | 109 | 111 | 70 - 134 | 2 | 20 |
| 28. 1,2-Dichloroethane | <50.0 | µg/kg(wet) | 5,000 | 5,930 | 6,070 | 119 | 121 | 70 - 134 | 2 | 20 |
| 29. 1,1-Dichloroethene | <25.0 | µg/kg(wet) | 5,000 | 5,887 | 5,944 | 118 | 119 | 75 - 134 | 1 | 20 |
| 30. cis-1,2-Dichloroethene | <25.0 | µg/kg(wet) | 5,000 | 6,076 | 6,241 | 122 | 125 | 70 - 134 | 2 | 20 |
| 31. trans-1,2-Dichloroethene | <25.0 | µg/kg(wet) | 5,000 | 5,918 | 5,991 | 118 | 120 | 70 - 134 | 2 | 20 |
| 32. 1,2-Dichloropropane | <25.0 | µg/kg(wet) | 5,000 | 5,964 | 6,127 | 119 | 123 | 75 - 134 | 3 | 20 |
| 33. cis-1,3-Dichloropropene | <25.0 | µg/kg(wet) | 5,000 | 6,218 | 6,415 | 124 | 128 | 70 - 134 | 3 | 20 |
| 34. trans-1,3-Dichloropropene | <25.0 | µg/kg(wet) | 5,000 | 6,153 | 6,306 | 123 | 126 | 70 - 134 | 2 | 20 |
| 35. Ethylbenzene | <25.0 | µg/kg(wet) | 5,000 | 6,335 | 6,330 | 127 | 127 | 75 - 134 | 0 | 20 |
| 36. Ethylene Dibromide | <25.0 | µg/kg(wet) | 5,000 | 5,816 | 5,850 | 116 | 117 | 70 - 134 | 1 | 20 |
| 37. 2-Hexanone | <250 | µg/kg(wet) | 5,000 | 5,902 | 5,841 | 118 | 117 | 70 - 150 | 1 | 20 |
| 38. Isopropylbenzene | <100 | µg/kg(wet) | 5,000 | 6,668 | 6,611 | 133 | 132 | 70 - 134 | 1 | 20 |

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Quality Control Report
Matrix Spike Summary
Laboratory Project Number: 69779

Order: 69779
Page: 3 of 4
Date: 09/25/15

Client Identification: **AKT Peerless Environ. Svcs,
Inc. - Farm. Hills** Client Project Name: **10279F-2-20** Client Project No: **10279F-2-20**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable

| Volatile Organic Compounds (VOCs) by GC/MS, 5035 (EPA 5035A/EPA 8260B) | | | | | | | Matrix: Soil/Solid | | | |
|---|-------------------|--------------|--------------------|-----------|------------|----------|---------------------------|------------------|--------------|---------|
| Parent Sample: | 69779-003A | Description: | AKT-3 (1-3) | | Sample No: | 3 | Collect Date: | 09/16/15 | 10:30 | |
| MS Sample ID: | 69779-004A | Description: | AKT MS | | Sample No: | 4 | Collect Date: | 09/16/15 | 10:30 | |
| MSD Sample ID: | 69779-005A | Description: | AKT MSD | | Sample No: | 5 | Collect Date: | 09/16/15 | 10:30 | |
| Parameter(s) | Result | Units | Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | MS/MSD LCL - UCL | RPD % | RPD UCL |
| 39. Methylene Chloride | <100 | µg/kg(wet) | 5,000 | 5,547 | 5,662 | 111 | 113 | 70 - 134 | 2 | 20 |
| 40. 2-Methylnaphthalene | <50.9 | µg/kg(wet) | 5,000 | 6,229 | 6,004 | 125 | 120 | 70 - 134 | 4 | 20 |
| 41. 4-Methyl-2-pentanone | <100 | µg/kg(wet) | 5,000 | 6,099 | 6,064 | 122 | 121 | 70 - 134 | 1 | 20 |
| 42. MTBE | <25.0 | µg/kg(wet) | 5,000 | 5,755 | 5,929 | 115 | 119 | 70 - 134 | 3 | 20 |
| 43. Naphthalene | <250 | µg/kg(wet) | 5,000 | 5,984 | 5,942 | 120 | 119 | 70 - 134 | 1 | 20 |
| 44. n-Propylbenzene | <25.0 | µg/kg(wet) | 5,000 | 6,212 | 6,273 | 124 | 125 | 70 - 134 | 1 | 20 |
| 45. Styrene | <25.0 | µg/kg(wet) | 5,000 | 6,752 | 6,746 | 135 * | 135 * | 70 - 134 | 0 | 20 |
| 46. 1,1,1,2-Tetrachloroethane | <25.0 | µg/kg(wet) | 5,000 | 6,325 | 6,378 | 127 | 128 | 70 - 134 | 1 | 20 |
| 47. 1,1,2,2-Tetrachloroethane | <50.0 | µg/kg(wet) | 5,000 | 5,805 | 5,893 | 116 | 118 | 70 - 134 | 2 | 20 |
| 48. Tetrachloroethene | <25.0 | µg/kg(wet) | 5,000 | 5,987 | 5,951 | 120 | 119 | 70 - 134 | 1 | 20 |
| 49. Toluene | <25.0 | µg/kg(wet) | 5,000 | 5,926 | 6,029 | 119 | 121 | 75 - 134 | 2 | 20 |
| 50. 1,2,4-Trichlorobenzene | <50.0 | µg/kg(wet) | 5,000 | 6,147 | 6,190 | 123 | 124 | 70 - 134 | 1 | 20 |
| 51. 1,1,1-Trichloroethane | <25.0 | µg/kg(wet) | 5,000 | 5,806 | 5,900 | 116 | 118 | 70 - 134 | 2 | 20 |
| 52. 1,1,2-Trichloroethane | <50.0 | µg/kg(wet) | 5,000 | 5,973 | 6,063 | 119 | 121 | 70 - 134 | 2 | 20 |
| 53. Trichloroethene | <25.0 | µg/kg(wet) | 5,000 | 6,389 | 6,436 | 128 | 129 | 70 - 134 | 1 | 20 |
| 54. Trichlorofluoromethane | <100 | µg/kg(wet) | 5,000 | 5,467 | 5,633 | 109 | 113 | 70 - 134 | 4 | 20 |
| 55. 1,2,3-Trichloropropane | <100 | µg/kg(wet) | 5,000 | 5,771 | 5,692 | 115 | 114 | 70 - 134 | 1 | 20 |
| 56. 1,2,3-Trimethylbenzene | <25.0 | µg/kg(wet) | 5,000 | 5,883 | 5,977 | 118 | 120 | 70 - 134 | 2 | 20 |
| 57. 1,2,4-Trimethylbenzene | <100 | µg/kg(wet) | 5,000 | 6,566 | 6,621 | 131 | 132 | 70 - 134 | 1 | 20 |
| 58. 1,3,5-Trimethylbenzene | <25.0 | µg/kg(wet) | 5,000 | 6,470 | 6,533 | 129 | 131 | 70 - 134 | 2 | 20 |
| 59. Vinyl Chloride | <25.0 | µg/kg(wet) | 5,000 | 5,367 | 5,447 | 107 | 109 | 75 - 134 | 2 | 20 |
| 60. m&p-Xylene | <50.0 | µg/kg(wet) | 10,000 | 13,210 | 13,168 | 132 | 132 | 70 - 134 | 0 | 20 |
| 61. o-Xylene | <50.0 | µg/kg(wet) | 5,000 | 6,510 | 6,477 | 130 | 130 | 70 - 134 | 0 | 20 |

1914 Holloway Drive
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8660 S. Mackinaw Trail

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Brighton, MI 48116
Cadillac, MI 49601

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T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

Definitions/ Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- *: Value reported is outside QA limits

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:



By Cheyenne Juntunen at 9:34 AM, Sep 25, 2015



Accreditation Number(s):

T104704518-15-3 (TX)

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FiberTec
environmental
services

Analytical Laboratory
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Geoprobe
11765 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #
130580
PAGE 3 of 3

| Client Name: AKT Prelegs | | | | PARAMETERS | | | | Turnaround | Matrix Code | Deliverables | | | | |
|--|----------|-------|------|--------------------------|-----|-----|-----|------------------------------------|-------------|--------------|---------|---|---|----------------------------------|
| Contact Person: Kyle Salvage / Megan Cyanar | | | | | | | | | | | | | | |
| Project Name/ Number: 10270 F-2-20 | | | | | | | | MATRIX [SEE RIGHT CORNER FOR CODE] | | | | | | |
| | | | | # OF CONTAINERS | | | | PRESERVED (Y/N) | | | | | | |
| Lab | Sample # | Date | Time | Client Sample Descriptor | 10C | 10A | 10B | PCB | NH | Lead | Cadmium | Chromium | | |
| 1 | 9/16 | 11:45 | | Field Bottle Blank Water | V | X | X | | | | | | | |
| 2 | | 11:45 | | Equipment Blank Water | V | X | X | | | | | | | |
| 3 | | | | Trip Blank 1 | V | X | X | | | | | | | |
| 4 | | | | Methanol Blank | S | I | Y | X | | | | | | |
| | | | | | | | | | | | | <input type="checkbox"/> Standard (5-7 bus. days) | | |
| | | | | | | | | | | | | <input type="checkbox"/> Other: Specify _____ | | |
| | | | | | | | | | | | | <input type="checkbox"/> FES Drilling Services _____ | | |
| | | | | | | | | | | | | Remarks: _____ | | |
| | | | | | | | | | | | | <input type="checkbox"/> 48 hour RUSH surcharge (applies) | | |
| | | | | | | | | | | | | <input type="checkbox"/> 72 hour RUSH surcharge (applies) | | |
| | | | | | | | | | | | | <input type="checkbox"/> A Air | <input type="checkbox"/> SW Surface Water | <input type="checkbox"/> Level 3 |
| | | | | | | | | | | | | <input type="checkbox"/> O Oil | <input type="checkbox"/> W Waste Water | <input type="checkbox"/> Level 4 |
| | | | | | | | | | | | | <input type="checkbox"/> P Wipe | <input type="checkbox"/> Other: Specify _____ | <input type="checkbox"/> EDD |

Comments:

Relinquished By: *Mr. Somme* Date/Time: **9/17/15 12:20** Received By: *Jeff Salvage* Date/Time: **9/17/15 12:20**

Relinquished By: *Jeff Salvage* Date/Time: **9/17/15 12:44** Received By: *Jeff Salvage* Date/Time: **9/17/15 12:44**

LAB USE ONLY:
FiberTec project number:
Laboratory Tracking:
Temperature at Receipt:

09779

TERMS & CONDITIONS ON BACK

FiberTec
environmental
services

Analytical laboratory
1914 Holloway Drive 8660 S. Mackinaw Trail
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Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody #
130579
PAGE 2 of 3

COC Revision: February, 2013

| Client Name: | | | | PARAMETERS | | | | Turnaround | Matrix Code | Deliverables | |
|--|---------|------|------------------------|--|---|---|-------|------------------------------------|-----------------|-----------------|----------|
| Contact Person: | | | | | | | | | | | |
| Project Name/ Number: | | | | AKT Peerless / Meagan Cress 10279 F-2-20 | | | | QUOTE# | | | |
| Purchase Order# | | | | | | | | | | | |
| Lab # | Date | Time | Client Sample # | Client Sample Descriptor | | | | MATRIX (SEE RIGHT CORNER FOR CODE) | # OF CONTAINERS | PRESERVED (Y/N) | |
| 9/16 | 9:30am | | AKT-8 (0,5-2) | S | 2 | Y | X X X | VOC | PNC | A | Metals |
| | 9:45 | | AKT-9 (2-4) | S | 2 | Y | X X | VOC | PNC | A | Lead |
| | 12:30pm | | AKT-10 (4-6) | S | 3 | Y | X X | VOC | PNC | A | Cadmium |
| | 12:30pm | | Equipment Blank S.1 | S | 6 | Y | X X | VOC | PNC | A | Chromium |
| | 12:40pm | | AKT-11 (2-4) | S | 3 | Y | X X | VOC | PNC | A | |
| | 12:46pm | | Field Bottle Blank S.1 | S | 1 | Y | X | VOC | PNC | A | |
| | 1:30pm | | AKT-12 (1-3) | S | 3 | Y | X X | VOC | PNC | A | |
| | 1:45pm | | AKT-13 (2-4) | S | 3 | Y | X X | VOC | PNC | A | |
| | 1:45pm | | AKT-13 (W) | S | 6 | Y | X X | VOC | PNC | A | |
| | 1:45pm | | AKT Dup Water | S | 6 | Y | X X | VOC | PNC | A | |
| Comments: | | | | | | | | | | | |
| Relinquished By: <i>Kyle Cress</i> Date/ Time: 9/17/15 | | | | Received By: <i>J. Johnson</i> Date/ Time: 9/17/15 12:20 | | | | | | | |
| Relinquished By: <i>J. Johnson</i> Date/ Time: 9/17/15 12:20 | | | | Received By: <i>J. Johnson</i> Date/ Time: 9/17/15 12:20 | | | | | | | |
| Relinquished By: <i>J. Johnson</i> Date/ Time: 9/17/15 12:20 | | | | Received By: <i>J. Johnson</i> Date/ Time: 9/17/15 12:20 | | | | | | | |
| LAB USE ONLY: Fibertec project number: Laboratory Tracking: Temperature at Receipt: | | | | | | | | | | | |

TERMS & CONDITIONS ON BACK

COC Revision: February, 2013



| | |
|--|--|
| 1914 Holloway Drive Holt, MI 48842 Phone: 517 699 0345 Fax: 517 699 0388 <small>email: lab@Bleeker.org</small> | Analytical Laboratory 8660 S. Mackinaw Trail Cadillac, MI 49601 Phone: 231 775 8368 Fax: 231 775 8384 |
|--|--|

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Chain of Custody #
134319
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